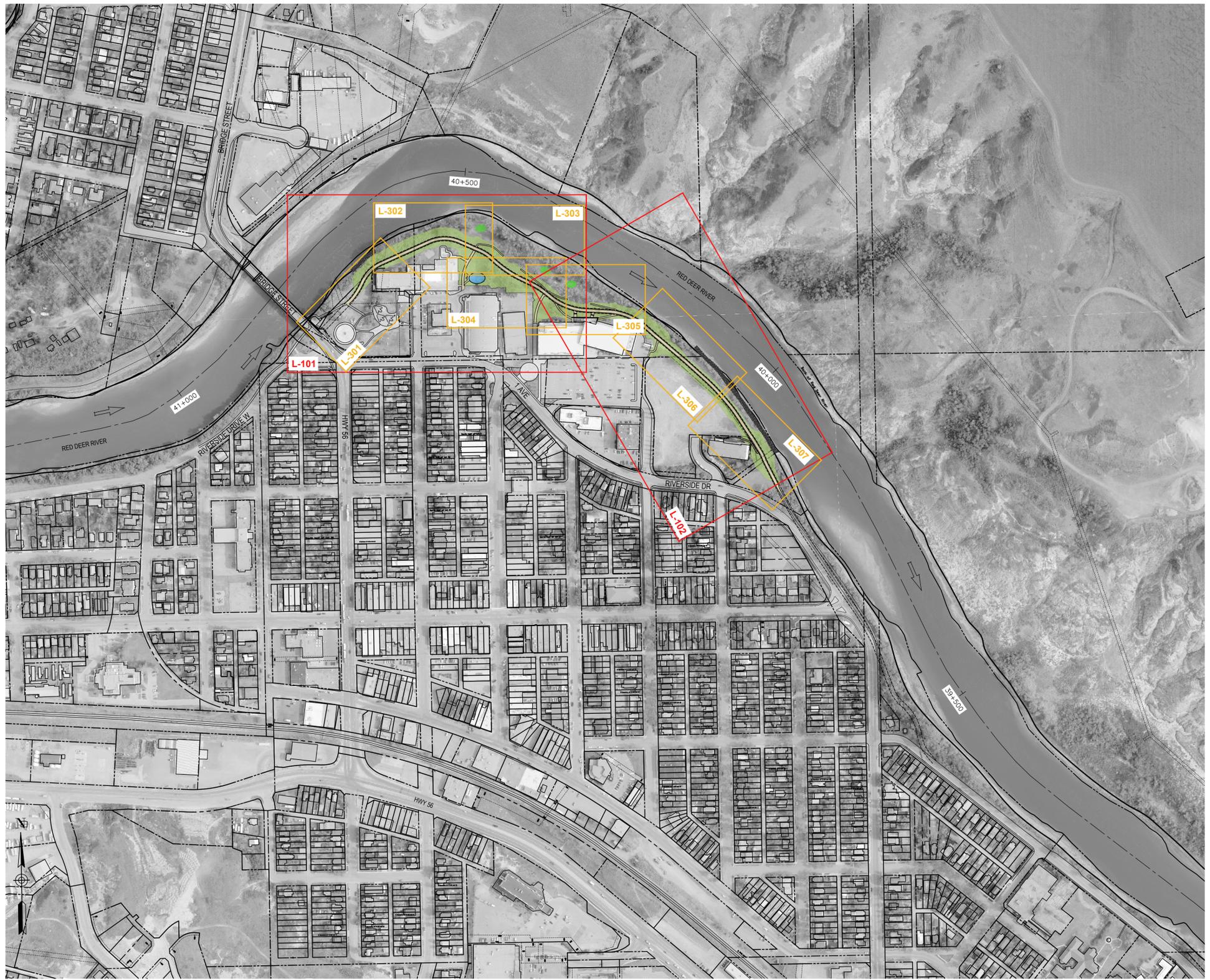


# TOWN OF DRUMHELLER

## PHASE 1 DOWNTOWN DIKE LANDSCAPE TENDER PACKAGE

### DRAWING LIST

DRAWING NO.	DRAWING TITLE
L-100	LANDSCAPE COVER SHEET & KEY PLAN
L-101	LANDSCAPE MASTER PLAN & TREE PLANTING STRATEGY
L-102	LANDSCAPE MASTER PLAN & TREE PLANTING STRATEGY
L-201	TREE REMOVALS PLAN
L-202	TREE REMOVAL PLAN
L-203	TREE REMOVALS NOTES
L-301	LAYOUT & GRADING PLAN
L-302	LAYOUT & GRADING PLAN
L-303	LAYOUT & GRADING PLAN
L-304	LAYOUT & GRADING PLAN
L-305	LAYOUT & GRADING PLAN
L-306	LAYOUT & GRADING PLAN
L-307	LAYOUT & GRADING PLAN
L-308	LAYOUT & GRADING PLAN
L-401	PLANTING PLAN
L-402	PLANTING PLAN
L-403	PLANTING PLAN
L-404	PLANTING PLAN
L-405	PLANTING PLAN
L-406	PLANTING PLAN
L-407	PLANTING PLAN
L-408	PLANT SCHEDULES
L-901	LANDSCAPE DETAILS
L-902	LANDSCAPE DETAILS
L-903	LANDSCAPE DETAILS
L-904	LANDSCAPE DETAILS
L-905	LANDSCAPE DETAILS



**PLAN**  
Scale 1:3000



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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE**

**PHASE 1  
LANDSCAPE COVER SHEET  
& KEY PLAN**

Project No. **133142** Drawing No. **L-100** Rev. **A**

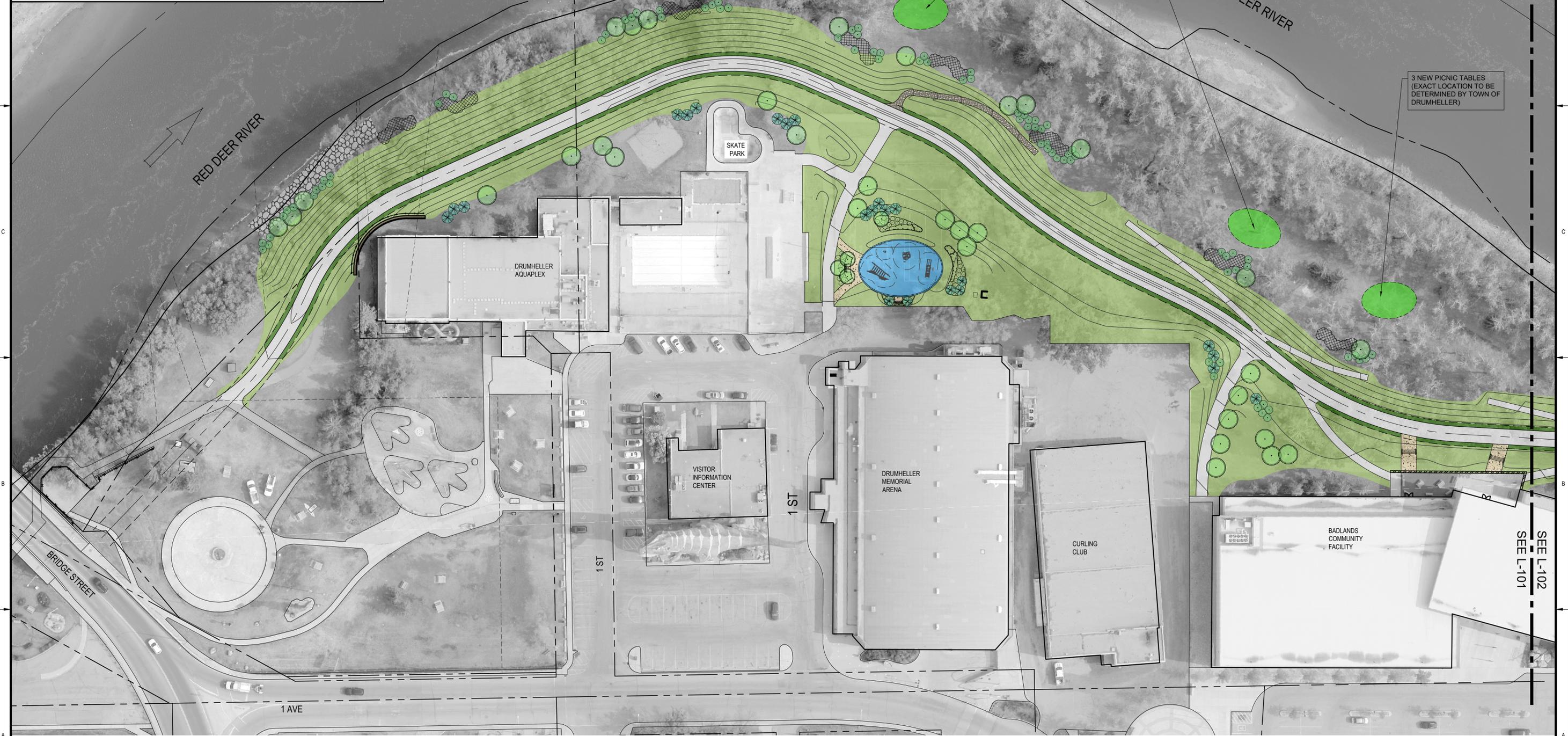
Group **LANDSCAPE**

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1:00  
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At Full Size, this border measures 320 mm x 800 mm  
millimeters

**LEGEND**

- ASPHALT PATHWAY
- GRAVEL PATHWAY
- CONCRETE SIDEWALK
- ROCK RIP RAP - SEE CIVIL DRAWINGS
- PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
- PROPOSED 50mm CAL. DECIDUOUS TREE
- PROPOSED #15 CONTAINER DECIDUOUS TREE
- PROPOSED CONIFEROUS TREE
- PROPOSED SEEDLINGS



**PLAN**  
Scale 1:500



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tel 403 270 5600 fax 403 270 5610  
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*Ernie J Webster*

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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE  
PHASE 1  
LANDSCAPE MASTER PLAN  
& TREE PLANTING STRATEGY**

Project No. 133142      Drawing No.      Rev. A  
Group LANDSCAPE      **L-101**

SEE L-101  
SEE L-102

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LEGEND	
	ASPHALT PATHWAY
	GRAVEL PATHWAY
	CONCRETE SIDEWALK
	ROCK RIP RAP - SEE CIVIL DRAWINGS
	PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
	PROPOSED 50mm CAL. DECIDUOUS TREE
	PROPOSED #15 CONTAINER DECIDUOUS TREE
	PROPOSED CONIFEROUS TREE
	PROPOSED SEEDLINGS



**PLAN**  
Scale 1:500



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Calgary AB T2R 1R9 Canada  
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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE**

**PHASE 1  
LANDSCAPE MASTER PLAN  
& TREE PLANTING STRATEGY**

Project No. **133142** Drawing No. **L-102** Rev. **A**

Group **LANDSCAPE**

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millimeters



**LEGEND**

- + 32 EXISTING TREE TO BE REMOVED - VERY GOOD HEALTH
- + 32 EXISTING TREE TO BE REMOVED - GOOD HEALTH
- + 32 EXISTING TREE TO BE REMOVED - FAIR HEALTH
- + 32 EXISTING TREE TO BE REMOVED - POOR HEALTH
- + 32 EXISTING TREE TO BE REMOVED - VERY POOR HEALTH
- 65 EXISTING TREE STUMP TO BE REMOVED
- + TREE TO BE REMOVED FROM MARCH 2021 TREE SURVEY
- + EXISTING TREE FROM MARCH 2021 TREE SURVEY

TREE SURVEY AS PER RANGLAND TREE HEALTH ASSESSMENT, SEPTEMBER 19, 2021.

**TREE REMOVAL DRAWINGS ARE INCLUDED FOR INFORMATION ONLY - TREES ARE BEING REMOVED UNDER A SEPARATE CONTRACT**

**PLAN**  
Scale 1:500



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3rd Floor - 227 11 Avenue SW  
Calgary AB T2R 1R9 Canada  
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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE  
PHASE 1  
TREE REMOVALS PLAN**

Project No. **133142** Drawing No. **L-201** Rev. **A**

Group **LANDSCAPE**

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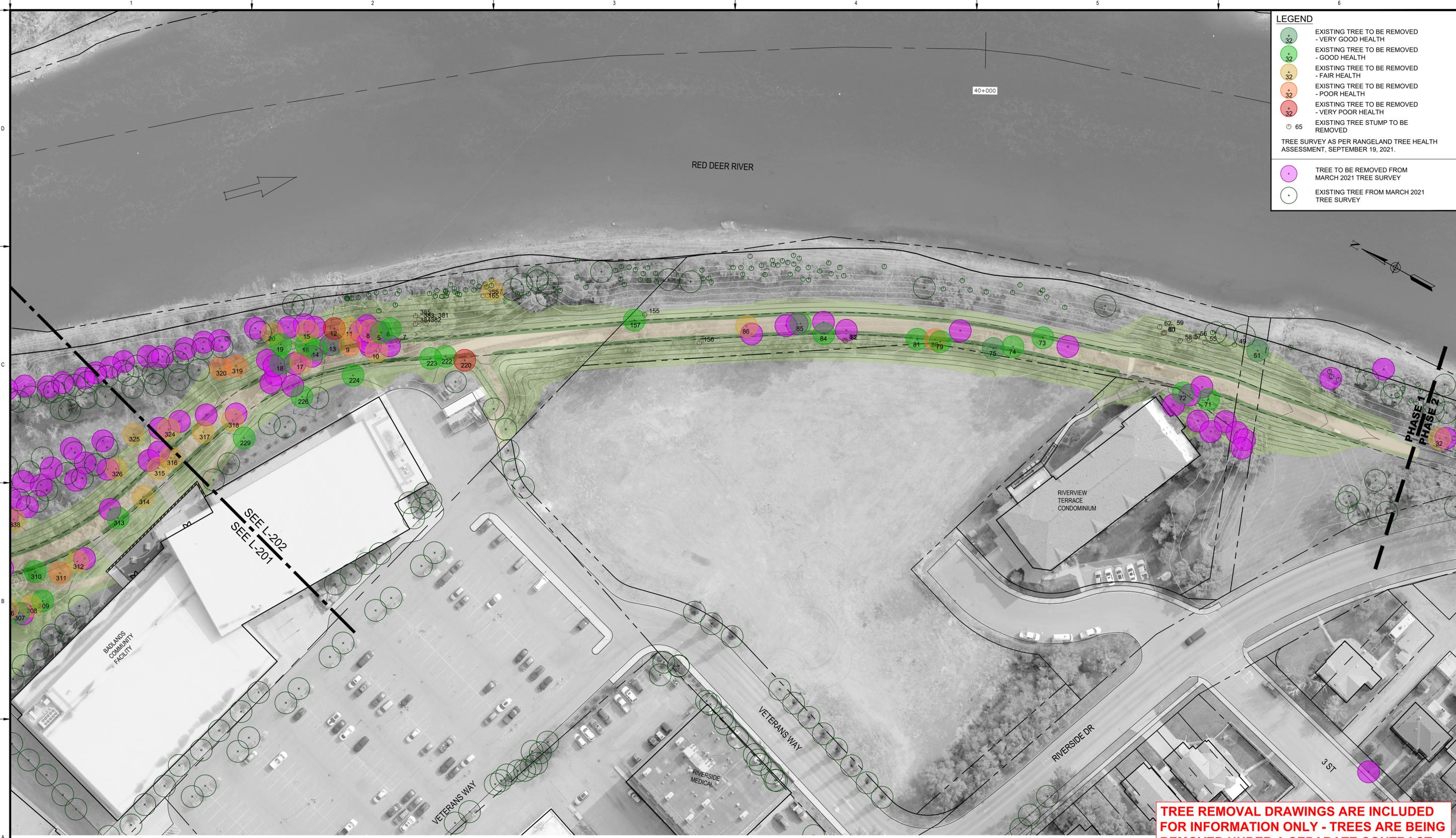
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At Full Size, this border measures 320 mm x 800 mm

100  
50  
0  
millimeters

**LEGEND**

- EXISTING TREE TO BE REMOVED - VERY GOOD HEALTH
- EXISTING TREE TO BE REMOVED - GOOD HEALTH
- EXISTING TREE TO BE REMOVED - FAIR HEALTH
- EXISTING TREE TO BE REMOVED - POOR HEALTH
- EXISTING TREE TO BE REMOVED - VERY POOR HEALTH
- EXISTING TREE STUMP TO BE REMOVED
- TREE TO BE REMOVED FROM MARCH 2021 TREE SURVEY
- EXISTING TREE FROM MARCH 2021 TREE SURVEY

TREE SURVEY AS PER RANGLAND TREE HEALTH ASSESSMENT, SEPTEMBER 19, 2021.



SEE L-202  
SEE L-201

PHASE 1  
PHASE 2

**TREE REMOVAL DRAWINGS ARE INCLUDED FOR INFORMATION ONLY - TREES ARE BEING REMOVED UNDER A SEPARATE CONTRACT**

**PLAN**  
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Rev	Date	Des	Dwn	Chk	Description

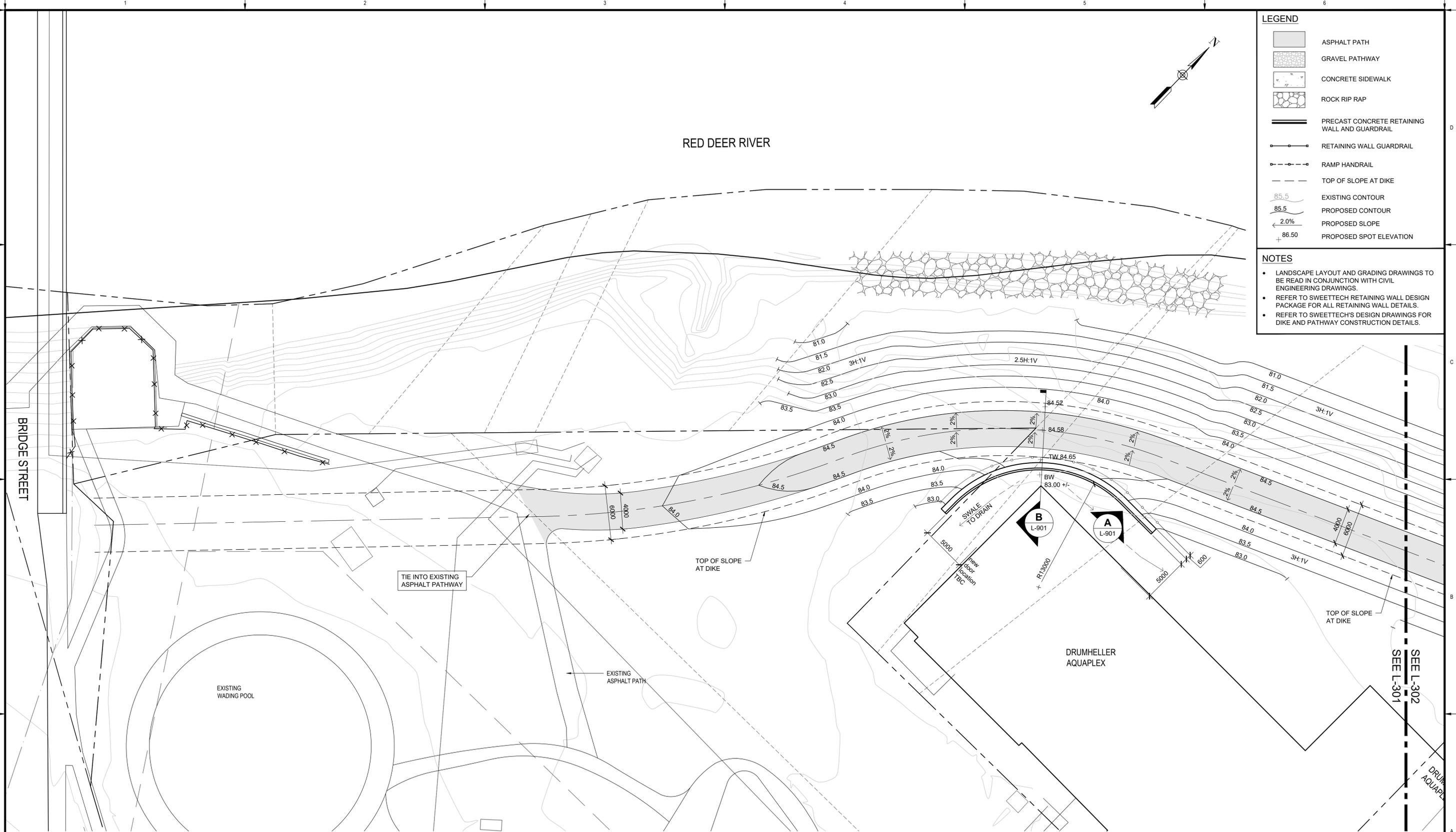
**TOWN OF DRUMHELLER  
DOWNTOWN DIKE**

**PHASE 1  
TREE REMOVAL PLAN**

Project No. **133142** Drawing No. **L-202** Rev. **A**

Group **LANDSCAPE**

Tree ID	Tree Species	DBH (cm)	Height (m)	External Health	Notes	Tree ID	Tree Species	DBH (cm)	Height (m)	External Health	Notes	Tree ID	Tree Species	DBH (cm)	Height (m)	External Health	Notes
5	Eastern Cottonwood	95.00	25.00	Good		305	Blue Spruce	36.10	18.00	Good	10% canopy dieback; exposed roots	502	Manitoba Maple	36.50	12.00	Good	10% canopy dieback
6	Manitoba Maple	6.10	4.00	Good	Senescing	306	Black Poplar	68.40	18.00	Fair	15% canopy dieback; exposed roots	503	Manitoba Maple	25.80	10.00	Good	10% canopy dieback
7		0.00	0.00	Stump		307	Black Poplar	47.20	18.00	Good	5% canopy dieback; black leaf spot	504	Manitoba Maple	15.20	8.00	Very Poor	Dead
8	Eastern Cottonwood	62.70	25.00	Fair		308	Blue Spruce	20.40	10.00	Fair	20% canopy dieback; exposed roots	505	Manitoba Maple	19.60	8.00	Fair	15% canopy dieback; leaning
9	Eastern Cottonwood	51.00	24.00	Poor		309	Black Poplar	45.30	16.00	Good	5% canopy dieback; poplar leaf gall mite	506	Green Ash	28.50	17.00	Very Poor	70% canopy dieback
10	Eastern Cottonwood	53.10	24.00	Fair		310	Blue Spruce	35.30	15.00	Good	10% canopy dieback; exposed roots	507	Manitoba Maple	71.80	11.00	Poor	Three-stemmed; 40% canopy dieback
11	Eastern Cottonwood	57.70	25.00	Fair	30% canopy dieback	311	Eastern Cottonwood	53.30	16.00	Poor	30% canopy dieback; poplar leaf gall mite; exposed roots	508	Manitoba Maple	8.00	6.00	Good	10% canopy dieback
12	Eastern Cottonwood	55.60	22.00	Very Poor	Poplar bud gall mite; 60% canopy dieback	312	Black Poplar	58.60	22.00	Fair	15% canopy dieback; exposed roots; poplar leaf gall mite	509	Manitoba Maple	35.30	10.00	Fair	15% canopy dieback
13	Manitoba Maple	5.20	5.00	Good	Multi-stemmed	313	Eastern Cottonwood	59.10	20.00	Good	10% canopy dieback; roots exposure; poplar leaf gall mite	510	Manitoba Maple	30.70	9.00	Fair	25% canopy dieback; leaning
14	Manitoba Maple	5.70	5.00	Good	Multi-stemmed	314	Eastern Cottonwood	53.20	17.00	Fair	15% canopy dieback; exposed roots; poplar leaf gall mite	511	Eastern Cottonwood	101.80	16.00	Poor	Leaning; 35% canopy dieback
15	Eastern Cottonwood	54.30	24.00	Fair	Poplar bud gall mite; 30% canopy dieback	315	Blue Spruce	40.40	16.00	Fair	20% canopy dieback; root exposure	512	Green Ash	15.10	11.00	Very Poor	50% canopy dieback
16	Eastern Cottonwood	56.00	24.00	Good	Poplar bud gall mite; 10% canopy dieback	316	Blue Spruce	34.40	15.00	Fair	20% canopy dieback; root exposure	513	Manitoba Maple	25.70	5.00	Very Poor	Leaning; topped; 30% canopy dieback
17	Manitoba Maple	32.10	9.00	Fair	Top broken; 20% canopy dieback	317	Eastern Cottonwood	54.50	15.00	Fair	25% canopy dieback; root exposure	514	Green Ash	19.70	8.00	Fair	30% canopy dieback
18	Manitoba Maple	36.20	11.00	Good	10% canopy dieback; boxelder bug	318	Eastern Cottonwood	59.20	15.00	Fair	15% canopy dieback; exposed roots; poplar leaf gall mite	515	Green Ash	6.10	5.00	Very Poor	60% canopy dieback
19	Eastern Cottonwood	66.10	24.00	Good	Poplar bud gall mite; 10% canopy dieback; roots exposed	319	American Elm	49.30	11.00	Poor	30% canopy dieback; exposed roots	516	Manitoba Maple	18.70	8.00	Fair	30% canopy dieback
20	Eastern Cottonwood	51.60	24.00	Fair	Poplar bud gall mite; 20% canopy dieback; roots exposed	320	American Elm	27.20	11.00	Poor	40% canopy dieback; exposed roots; leaf black spot	517	Green Ash	13.50	5.00	Very Poor	50% canopy dieback; two-stemmed
49	Manitoba Maple	0.00	0.00	Stump	Suckering	324	Eastern Cottonwood	57.20	23.00	Fair	15% canopy dieback; exposed roots; poplar leaf gall mite	518	Manitoba Maple	27.50	13.00	Fair	30% canopy dieback
51	Green Ash	3.40	5.00	Very Good	Multi-stemmed; boxelder bug	325	American Elm	49.80	19.00	Fair	15% canopy dieback; exposed roots; black leaf spot; poplar leaf gall mite	519	Manitoba Maple	21.00	11.00	Poor	40% canopy dieback
55	Manitoba Maple	0.00	0.00	Stump	Suckering	326	Eastern Cottonwood	45.70	18.00	Fair	15% canopy dieback; poplar leaf gall mite; exposed roots	520	Manitoba Maple	13.80	6.00	Very Poor	50% canopy dieback
56	Manitoba Maple	0.00	0.00	Stump	Suckering	338	Eastern Cottonwood	40.60	15.00	Fair	10% canopy dieback; exposed cambium; exposed roots; poplar leaf gall mite	521	Green Ash	7.10	6.00	Poor	40% canopy dieback
57	Manitoba Maple	0.00	0.00	Stump	Suckering	341	Eastern Cottonwood	60.00	18.00	Poor	30% canopy dieback; poplar leaf gall mite	522	Manitoba Maple	32.50	11.00	Poor	40% canopy dieback
58	Manitoba Maple	0.00	0.00	Stump	Suckering	357	Manitoba Maple	0.00	0.00	Stump	Suckering	523	Manitoba Maple	39.40	11.00	Poor	40% canopy dieback
59	Manitoba Maple	0.00	0.00	Stump	Suckering	358	Manitoba Maple	0.00	0.00	Stump	Suckering	524	Manitoba Maple	19.50	12.00	Fair	15% canopy dieback
60	Manitoba Maple	0.00	0.00	Stump	Suckering	368	Manitoba Maple	0.00	0.00	Stump	Suckering	525	Manitoba Maple	15.50	2.00	Good	Topped; 10% canopy dieback
61	Manitoba Maple	0.00	0.00	Stump	Suckering	369	Manitoba Maple	0.00	0.00	Stump	Suckering	526	Apple	8.40	3.00	Very Poor	Dead
62	Manitoba Maple	0.00	0.00	Stump	Suckering	376	Manitoba Maple	0.00	0.00	Stump	Suckering	527	Green Ash	7.30	3.00	Fair	30% canopy dieback
71	Manitoba Maple	33.30	10.00	Good	Boxelder bug; 3 stemmed	377	Manitoba Maple	0.00	0.00	Stump	Suckering	528	Green Ash	13.70	10.00	Very Poor	50% canopy dieback
72	Manitoba Maple	51.00	13.00	Good	3 stemmed	379	Manitoba Maple	0.00	0.00	Stump	Suckering	529	Green Ash	7.70	7.00	Very Poor	70% canopy dieback
73	Eastern Cottonwood	100.00	27.00	Good	10% canopy dieback	381	Manitoba Maple	0.00	0.00	Stump	Suckering	530	Manitoba Maple	11.30	8.00	Good	10% canopy dieback
74	Manitoba Maple	78.30	8.00	Good	Beaver activity; 4 stemmed	382	Manitoba Maple	0.00	0.00	Stump	Suckering	531	Manitoba Maple	8.50	7.00	Very Poor	90% canopy dieback
75	Manitoba Maple	10.50	7.00	Very Good		383	Manitoba Maple	0.00	0.00	Stump	Suckering	532	Green Ash	9.60	8.00	Very Poor	50% canopy dieback; cambium exposed
79	Laurel Leaf Willow	4.50	5.00	Good	Multi-stemmed; leaning; 5% canopy dieback	384	Manitoba Maple	0.00	0.00	Stump	Suckering	533	Manitoba Maple	26.70	11.00	Poor	40% canopy dieback; leaning
80	Green Ash	5.50	6.00	Poor	Boxelder bug	385	Manitoba Maple	0.00	0.00	Stump	Suckering	534	Manitoba Maple	19.00	9.00	Fair	Two-stemmed; 20% canopy dieback
81	Manitoba Maple	23.30	7.00	Good	5% canopy dieback	386	Manitoba Maple	0.00	0.00	Stump	Suckering	535	Eastern Cottonwood	223.40	20.00	Fair	Cambium exposed; 20% canopy dieback; two-stemmed
82	Green Ash	0.00	0.00	Stump	Suckering	392	Manitoba Maple	0.00	0.00	Stump	Suckering	536	Manitoba Maple	42.20	10.00	Fair	30% canopy dieback; leaning
83	Green Ash	0.00	0.00	Stump	Suckering	398	Siberian Elm	0.00	0.00	Stump	Suckering	537	Green Ash	16.70	6.00	Very Poor	50% canopy dieback
84	Eastern Cottonwood	66.00	20.00	Good	10% canopy dieback	399	Mountain Ash	0.00	0.00	Stump	Suckering	538	Manitoba Maple	20.80	10.00	Good	10% canopy dieback; multi-stemmed
85	Eastern Cottonwood	69.00	22.00	Good	Two-stemmed	400	Black Poplar	0.00	0.00	Stump	Suckering	539	Manitoba Maple	23.70	7.00	Good	Leaning; 5% canopy dieback
86	Eastern Cottonwood	68.00	21.00	Fair	Poplar gall leaf mite; 2 core samples	402	Green Ash	0.00	0.00	Stump	Suckering	540	Manitoba Maple	28.10	9.00	Poor	Two-stemmed; 40% canopy dieback
155		0.00	0.00	Stump		407	Green Ash	0.00	0.00	Stump	Suckering	541	Manitoba Maple	21.10	15.00	Fair	Leaning; 20% canopy dieback
156		0.00	0.00	Stump		408	Green Ash	59.70	20.00	Poor	30% canopy dieback	542	Manitoba Maple	10.10	1.00	Very Poor	Dead
157	Eastern Cottonwood	151.10	17.00	Good	5% dieback; beaver activity; two-stemmed	409	Green Ash	61.90	20.00	Fair	15% canopy dieback	543	Manitoba Maple	42.20	6.00	Poor	35% canopy dieback
165	Laurel Leaf Willow	23.50	7.00	Fair	Multi-stemmed; leaning; 30% dieback	410	Green Ash	0.00	0.00	Stump	Suckering	544	Manitoba Maple	18.30	5.00	Very Poor	60% canopy dieback; multi-stemmed; leaning
220	Green Ash	8.90	6.00	Very Poor	55% canopy dieback	411	Green Ash	0.00	0.00	Stump	Suckering	545	Manitoba Maple	22.00	6.00	Good	15% canopy dieback
222	Green Ash	14.60	9.00	Good	5% canopy dieback	412	Green Ash	68.00	10.00	Poor	30% canopy dieback; cambium exposed and broken	546	Manitoba Maple	17.60	6.00	Poor	40% canopy dieback
223	Green Ash	15.20	9.00	Good	5% canopy dieback	413	Green Ash	37.20	9.00	Good	Ash flower gall mite; 5% canopy dieback; multi-stemmed; leaning	547	Manitoba Maple	9.90	3.00	Very Poor	Dead
224	Green Ash	14.50	9.00	Good	5% canopy dieback	414	Green Ash	22.00	12.00	Fair	Multi-stemmed; broken bark over small area; 10% canopy dieback	548	Manitoba Maple	13.70	12.00	Poor	35% canopy dieback
226	Green Ash	11.70	8.00	Good	Ash flower gall	421	Green Ash	18.10	13.00	Good	10% canopy dieback	549	Manitoba Maple	9.80	5.00	Very Poor	Dead
229	Green Ash	11.90	7.00	Good	Ash flower gall mite	422	Green Ash	26.50	13.00	Good	15% canopy dieback	550	Manitoba Maple	42.40	13.00	Poor	30% canopy dieback; two-stemmed
240	Green Ash	9.30	6.00	Very Poor	70% canopy dieback	423	Green Ash	17.20	13.00	Fair	20% canopy dieback; 2 stemmed	551	Manitoba Maple	63.10	14.00	Good	Two-stemmed; 15% canopy dieback
241	Green Ash	8.10	6.00	Very Poor	Dead; suckering	424	Green Ash	13.50	13.00	Good	10% canopy dieback	552	Green Ash	4.20	4.00	Stump	Suckering
242	Green Ash	9.80	6.00	Very Poor	80% canopy dieback	425	Manitoba Maple	8.60	7.00	Fair	Multi-stemmed	553	Manitoba Maple	15.40	8.00	Fair	Leaning; 20% canopy dieback
243	Green Ash	9.60	6.00	Very Poor	60% canopy dieback; cambium exposed	426	Manitoba Maple	7.10	7.00	Fair	15% canopy dieback; multi-stemmed; diseased	554	Green Ash	7.50	7.00	Very Poor	Dead
244	Black Poplar	43.50	11.00	Poor	40% canopy dieback; leaf spot; aphids	427	American Elm	17.00	7.00	Good	10% canopy dieback	555	Manitoba Maple	15.00	5.00	Very Poor	60% canopy dieback
245	Blue Spruce	23.90	12.00	Good	10% canopy dieback	428	Green Ash	11.90	8.00	Fair	Multi-stemmed; 15% canopy dieback	556	Manitoba Maple	5.20	3.00	Very Poor	60% canopy dieback
246	Green Ash	7.00	6.00	Very Poor	Dead; suckering	429	Manitoba Maple	11.50	7.00	Fair	Senescing; 20% canopy dieback	557	Manitoba Maple	18.20	9.00	Poor	40% canopy dieback
247	Black Poplar	47.30	18.00	Poor	30% canopy dieback; cambium exposed	430	Green Ash	12.00	7.00	Good	Senescing; 10% canopy dieback	558	Manitoba Maple	46.50	15.00	Good	10% canopy dieback; two-stemmed
248	Eastern Cottonwood	57.10	19.00	Fair	Roots exposed; 15% canopy dieback; leaning	431	Manitoba Maple	5.70	4.00	Good	5% canopy dieback	559	Manitoba Maple	45.00	8.00	Fair	Three-stemmed; 20% canopy dieback
257	Blue Spruce	21.80	10.00	Fair	20% canopy dieback	432	Green Ash	16.50	5.00	Very Poor	Dead; suckering; 2 stemmed	560	Manitoba Maple	78.00	13.00	Fair	Three-stemmed; 20% canopy dieback
260		0.00	0.00	Stump		433	Manitoba Maple	7.80	7.00	Good	5% canopy dieback; senescing	561	Manitoba Maple	62.50	10.00	Good	Three-stemmed; leaning; 10% canopy dieback
261	American Elm	43.20	19.00	Poor	Leaf spot; 30% canopy dieback	434	Manitoba Maple	9.00	7.00	Good	10% canopy dieback; senescing	562	Manitoba Maple	15.00	5.00	Very Poor	90% canopy dieback; leaning
262	American Elm	80.70	18.00	Good	2 stemmed; leaf spot; 10% canopy dieback	435	Manitoba Maple	0.00	0.00	Stump	Suckering	563	Green Ash	6.80	7.00	Poor	40% canopy dieback
263	American Elm	65.40	17.00	Fair	Cambium exposed; 20% canopy dieback	436	Apple	6.00	5.00	Good	5% canopy dieback	564	Manitoba Maple	17.90	7.00	Fair	20% canopy dieback; leaning
264		0.00	0.00	Stump		437	Manitoba Maple	31.90	7.00	Poor	Leaning; 40% canopy dieback	565	Manitoba Maple	5.40	3.00	Very Poor	80% canopy dieback
265		0.00	0.00	Stump		438	Manitoba Maple	10.50	7.00	Fair	20% canopy dieback						
267		0.00	0.00	Stump		439	Manitoba Maple	17.30	9.00	Poor	30% canopy dieback; leaning						
268		0.00	0.00	Stump		440	Manitoba Maple	32.30	9.00	Very Poor	50% canopy dieback; leaning						
269	Eastern Cottonwood	76.30	20.00	Good	5% canopy dieback; leaning	441	Manitoba Maple	28.10	9.00	Fair	Leaning; 10% canopy dieback; diseased						
270	Black Poplar	57.50	19.00	Good	15% canopy dieback; leaning; roots exposed	442	Manitoba Maple	32.30	10.00	Good	10% canopy dieback						
271	Eastern Cottonwood	99.00	23.00	Fair	Roots exposed; cambium exposed; 15% canopy dieback	443	Manitoba Maple	9.50	3.00	Very Poor	50% canopy dieback						
272	Eastern Cottonwood	73.50	19.00	Poor	Leaning; 30% canopy dieback	444	Manitoba Maple	28.80	9.00	Fair	30% canopy dieback						
273	Eastern Cottonwood	63.00	19.00	Poor	40% canopy dieback; roots exposed	445	Manitoba Maple	9.00	4.00	Very Poor	50% canopy dieback						
274	Black Poplar	52.10	20.00	Good	Roots exposed; 5% canopy dieback; leaning	456	Green Ash	12.20	8.00	Good	5% canopy dieback						
275	Black Poplar	52.70	20.00	Good	Roots exposed; leaning; 5% canopy dieback	457	Green Ash	16.30	11.00	Good	10% canopy dieback; senescing						
276	Black Poplar	46.10	16.00														



**LEGEND**

- ASPHALT PATH
- GRAVEL PATHWAY
- CONCRETE SIDEWALK
- ROCK RIP RAP
- PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
- RETAINING WALL GUARDRAIL
- RAMP HANDRAIL
- TOP OF SLOPE AT DIKE
- 85.5 EXISTING CONTOUR
- 85.5 PROPOSED CONTOUR
- 2.0% PROPOSED SLOPE
- + 86.50 PROPOSED SPOT ELEVATION

- NOTES**
- LANDSCAPE LAYOUT AND GRADING DRAWINGS TO BE READ IN CONJUNCTION WITH CIVIL ENGINEERING DRAWINGS.
  - REFER TO SWEETECH RETAINING WALL DESIGN PACKAGE FOR ALL RETAINING WALL DETAILS.
  - REFER TO SWEETECH'S DESIGN DRAWINGS FOR DIKE AND PATHWAY CONSTRUCTION DETAILS.

**PLAN**  
Scale 1:200



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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE  
PHASE 1  
LAYOUT & GRADING PLAN**

Project No. 133142 Drawing No. L-301 Rev. A  
Group LANDSCAPE

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50  
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millimeters

**LEGEND**

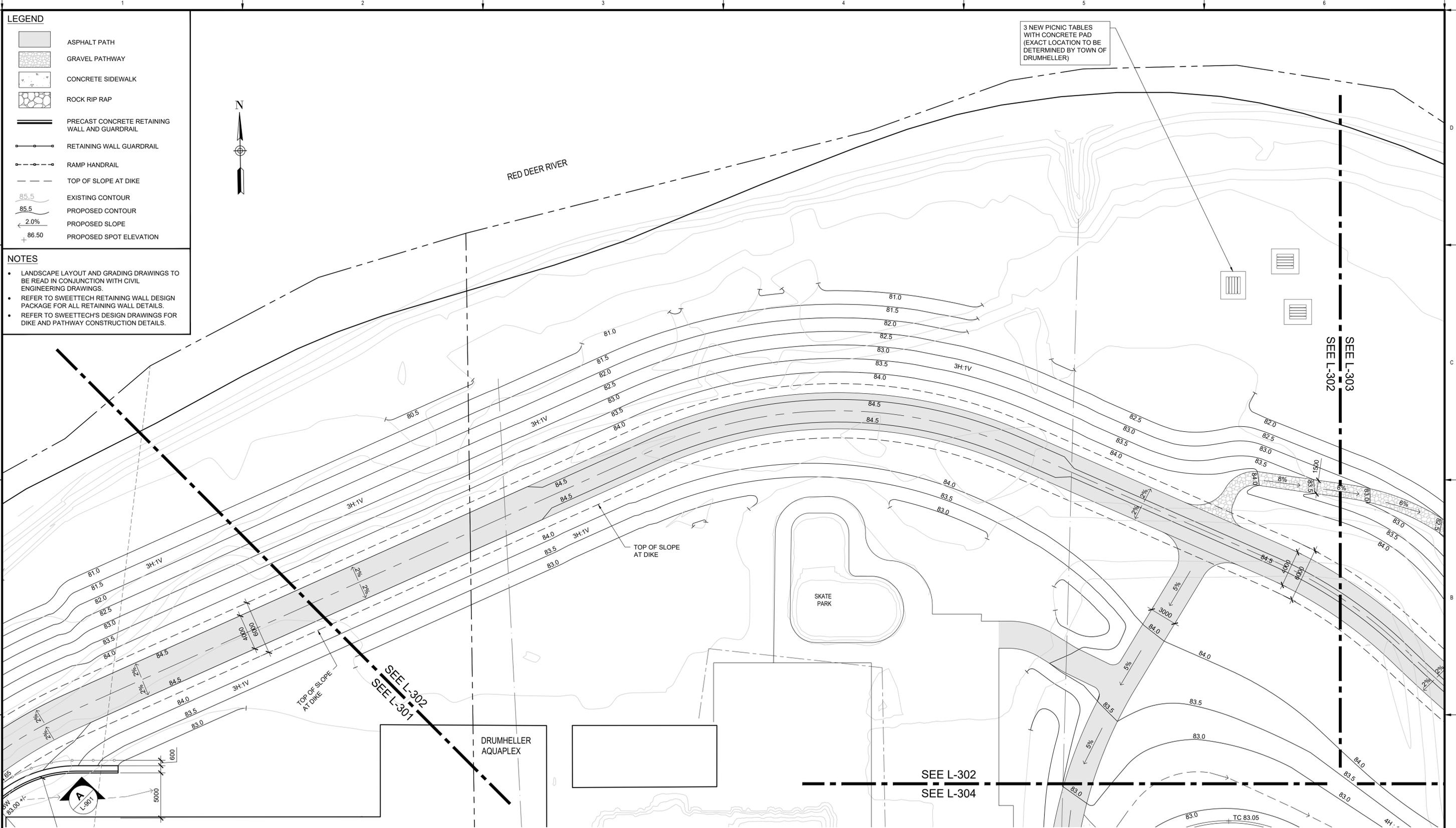
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	GRAVEL PATHWAY
	CONCRETE SIDEWALK
	ROCK RIP RAP
	PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
	RETAINING WALL GUARDRAIL
	RAMP HANDRAIL
	TOP OF SLOPE AT DIKE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SLOPE
	PROPOSED SPOT ELEVATION

- NOTES**
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RED DEER RIVER

3 NEW PICNIC TABLES WITH CONCRETE PAD (EXACT LOCATION TO BE DETERMINED BY TOWN OF DRUMHELLER)



**PLAN**  
Scale 1:200



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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE  
PHASE 1  
LAYOUT & GRADING PLAN**

Project No. **133142** Drawing No. **L-302** Rev. **A**

Group **LANDSCAPE**

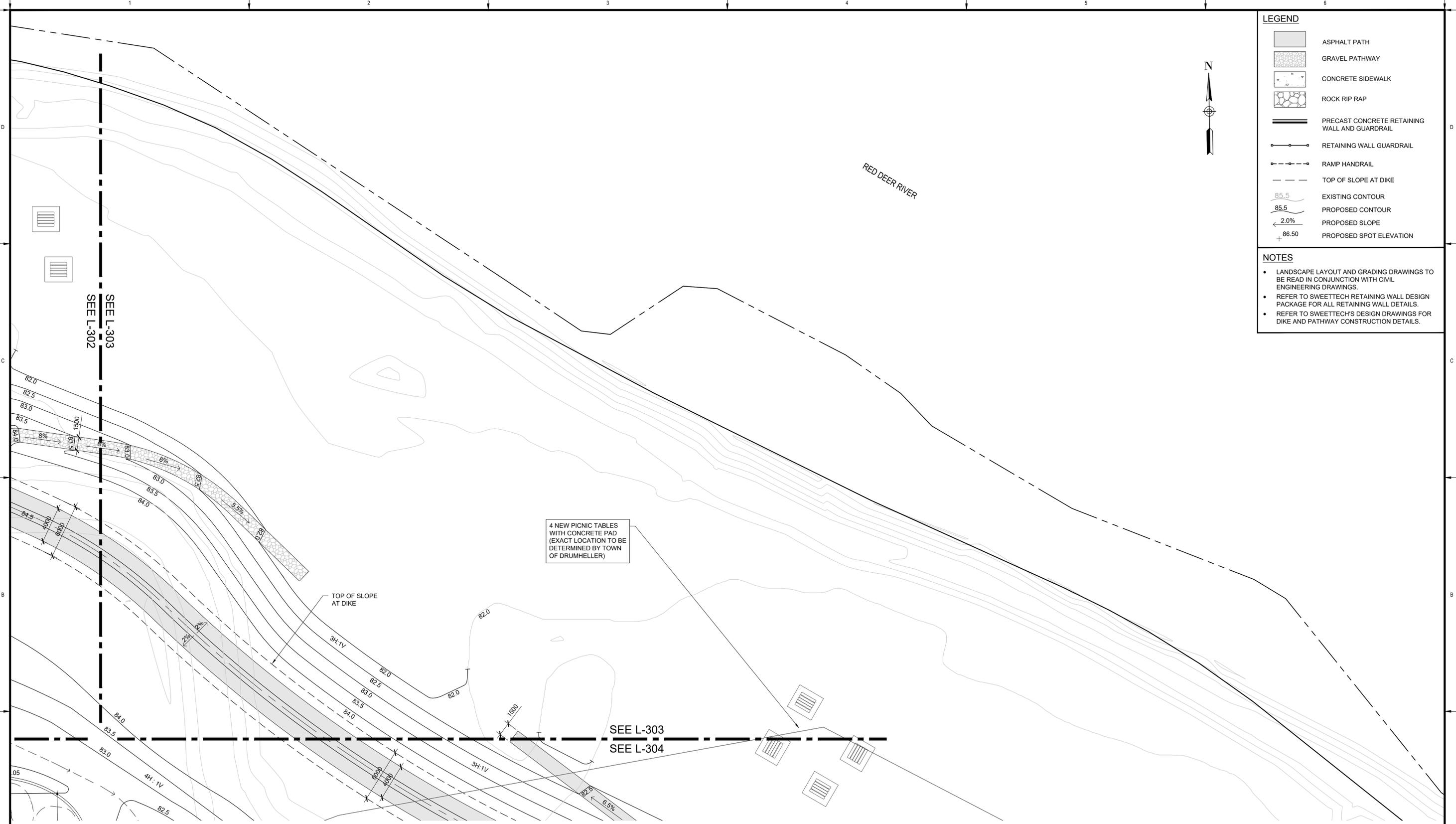
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LEGEND	
	ASPHALT PATH
	GRAVEL PATHWAY
	CONCRETE SIDEWALK
	ROCK RIP RAP
	PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
	RETAINING WALL GUARDRAIL
	RAMP HANDRAIL
	TOP OF SLOPE AT DIKE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SLOPE
	PROPOSED SPOT ELEVATION

- NOTES**
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  - REFER TO SWEETECH'S DESIGN DRAWINGS FOR DIKE AND PATHWAY CONSTRUCTION DETAILS.



**PLAN**  
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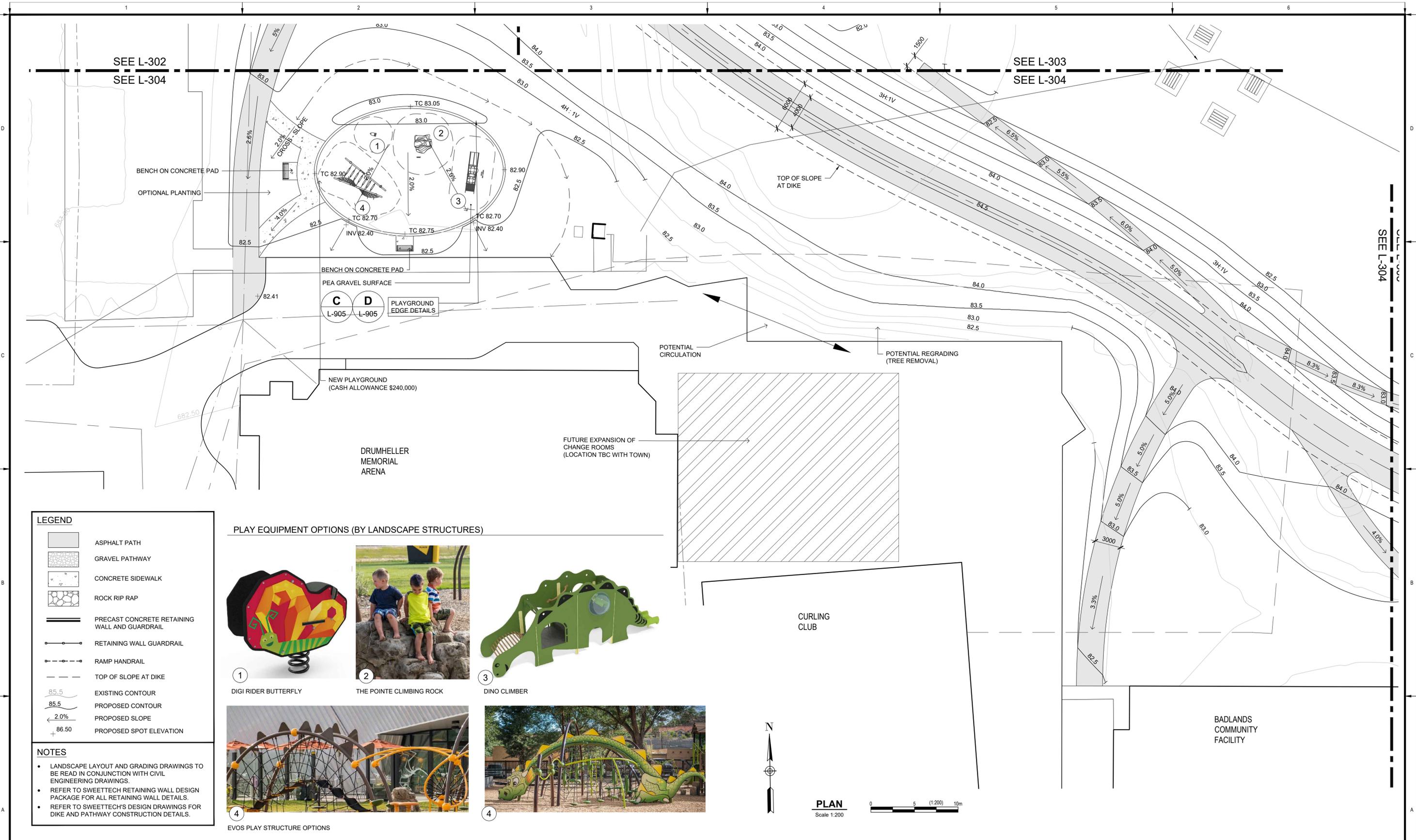
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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
 DOWNTOWN DIKE**

**PHASE 1  
 LAYOUT & GRADING PLAN**

Project No. **133142** Drawing No. **L-303** Rev. **A**  
 Group **LANDSCAPE**



**LEGEND**

- ASPHALT PATH
- GRAVEL PATHWAY
- CONCRETE SIDEWALK
- ROCK RIP RAP
- PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
- RETAINING WALL GUARDRAIL
- RAMP HANDRAIL
- TOP OF SLOPE AT DIKE
- 85.5 EXISTING CONTOUR
- 85.5 PROPOSED CONTOUR
- 2.0% PROPOSED SLOPE
- 86.50 PROPOSED SPOT ELEVATION

**NOTES**

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**PLAY EQUIPMENT OPTIONS (BY LANDSCAPE STRUCTURES)**



① DIGI RIDER BUTTERFLY



② THE POINTE CLIMBING ROCK



③ DINO CLIMBER

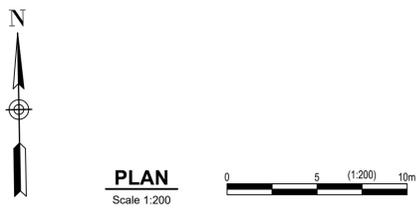


④ EVOS PLAY STRUCTURE OPTIONS



④

N



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**TOWN OF DRUMHELLER  
 DOWNTOWN DIKE**

**PHASE 1  
 LAYOUT & GRADING PLAN**

Project No. **133142** Drawing No. **L-304** Rev. **A**

Group **LANDSCAPE**

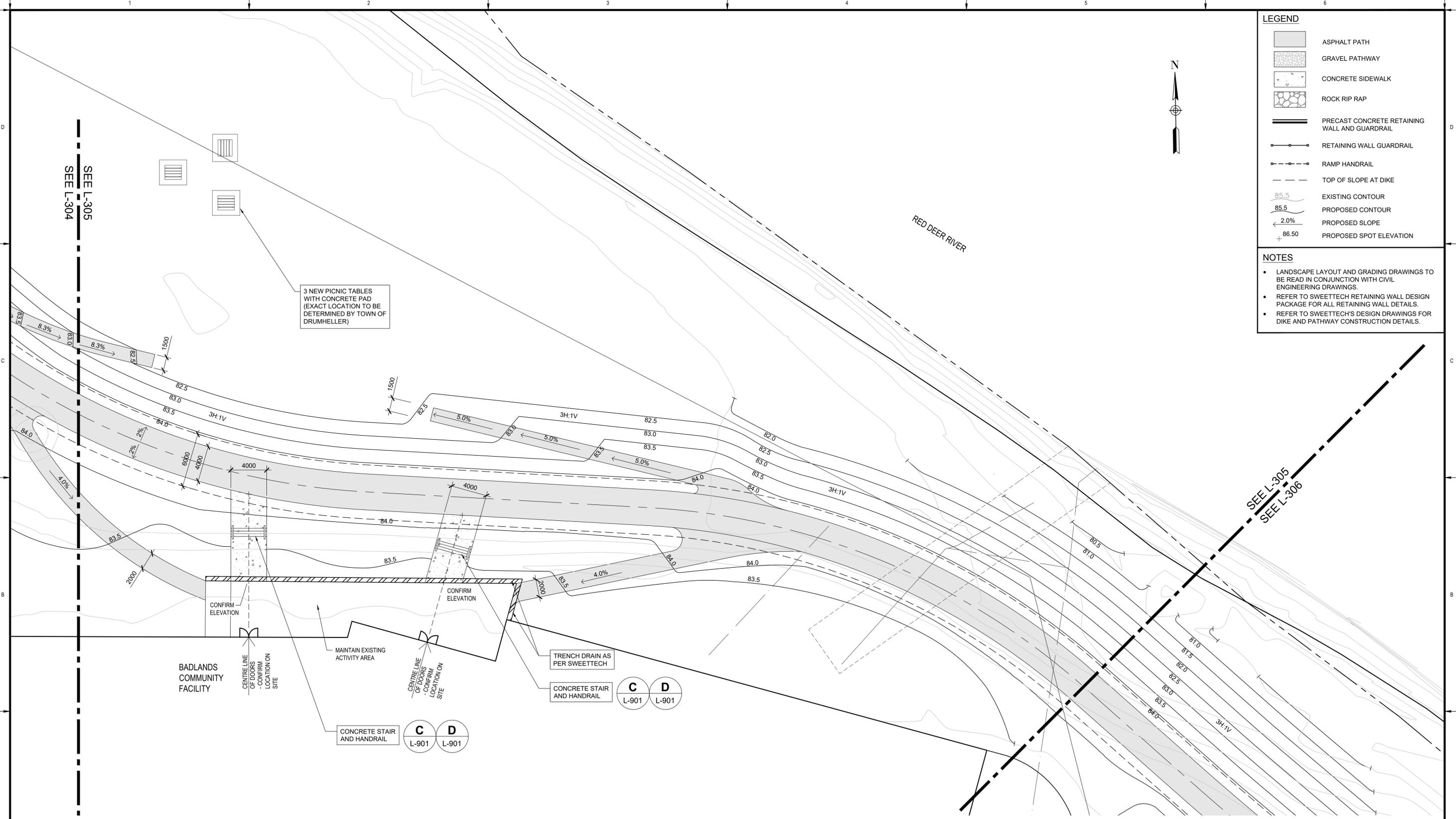
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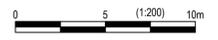


LEGEND	
	ASPHALT PATH
	GRAVEL PATHWAY
	CONCRETE SIDEWALK
	ROCK RIP RAP
	PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
	RETAINING WALL GUARDRAIL
	RAMP HANDRAIL
	TOP OF SLOPE AT DIKE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SLOPE
	PROPOSED SPOT ELEVATION

- NOTES**
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**TOWN OF DRUMHELLER  
 DOWNTOWN DIKE**

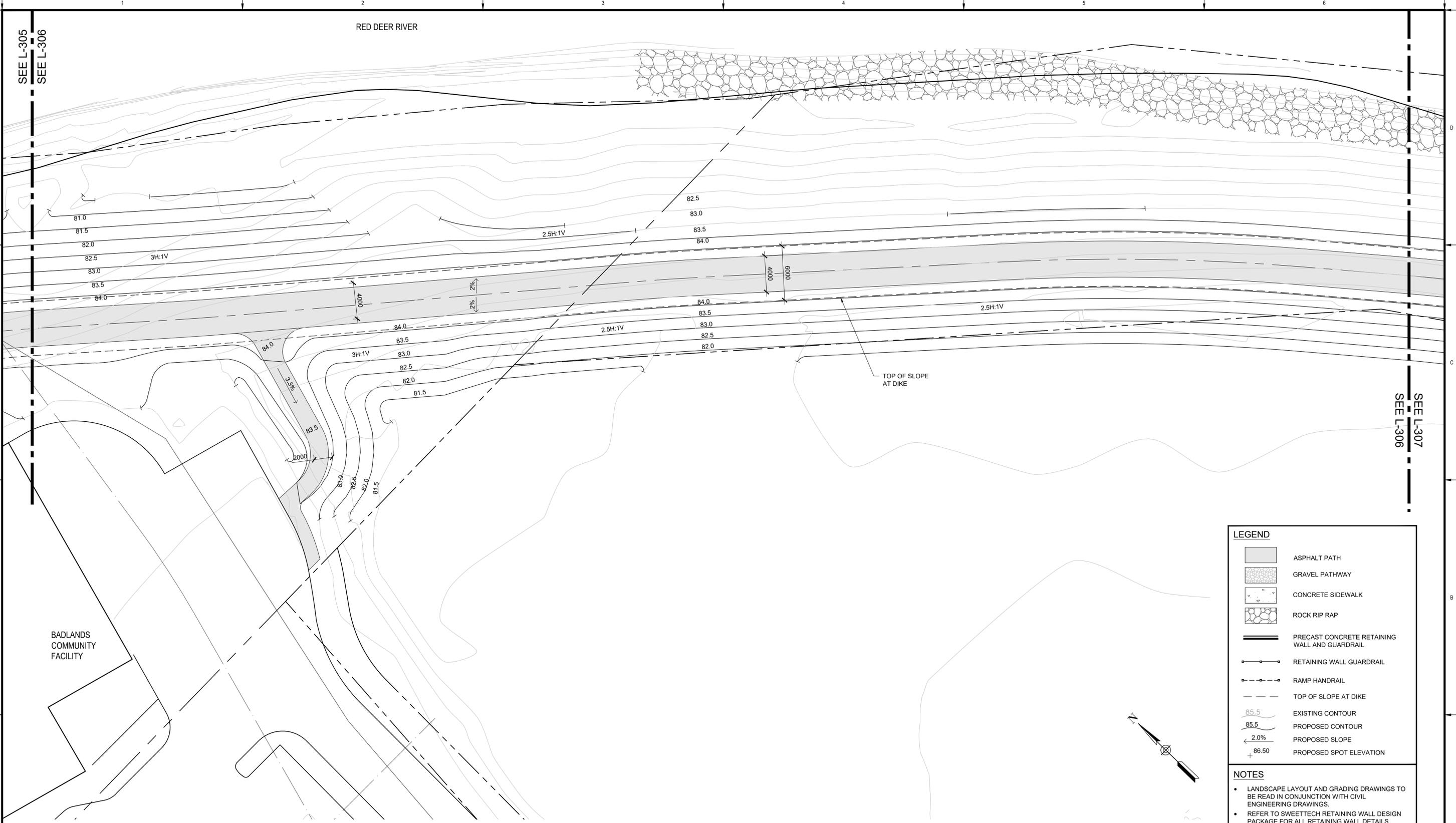
**PHASE 1  
 LAYOUT & GRADING PLAN**

Project No. **133142** Drawing No. **L-305** Rev. **A**

Group **LANDSCAPE**

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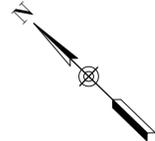
**LEGEND**

- ASPHALT PATH
- GRAVEL PATHWAY
- CONCRETE SIDEWALK
- ROCK RIP RAP
- PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
- RETAINING WALL GUARDRAIL
- RAMP HANDRAIL
- TOP OF SLOPE AT DIKE
- EXISTING CONTOUR
- PROPOSED CONTOUR
- PROPOSED SLOPE
- PROPOSED SPOT ELEVATION

**NOTES**

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**PLAN**  
 Scale 1:200



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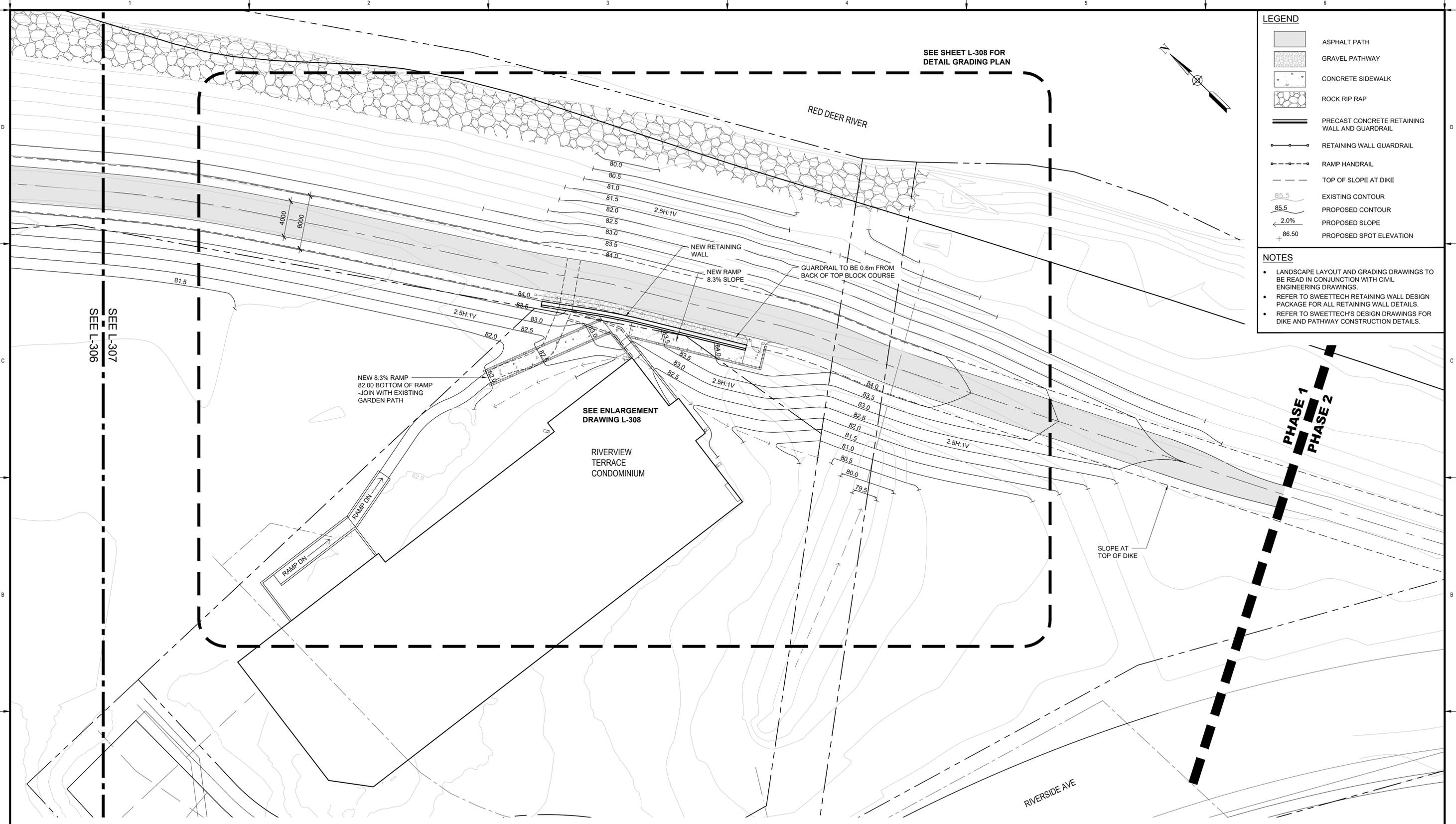
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**TOWN OF DRUMHELLER  
 DOWNTOWN DIKE**

**PHASE 1  
 LAYOUT & GRADING PLAN**

Project No. **133142** Drawing No. **L-306** Rev. **A**  
 Group **LANDSCAPE**



SEE SHEET L-308 FOR  
DETAIL GRADING PLAN

**LEGEND**

	ASPHALT PATH
	GRAVEL PATHWAY
	CONCRETE SIDEWALK
	ROCK RIP RAP
	PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
	RETAINING WALL GUARDRAIL
	RAMP HANDRAIL
	TOP OF SLOPE AT DIKE
	EXISTING CONTOUR
	PROPOSED CONTOUR
	PROPOSED SLOPE
	PROPOSED SPOT ELEVATION

- NOTES**
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SEE L-307  
SEE L-306

NEW 8.3% RAMP  
82.00 BOTTOM OF RAMP  
-JOIN WITH EXISTING  
GARDEN PATH

SEE ENLARGEMENT  
DRAWING L-308

RIVERVIEW  
TERRACE  
CONDOMINIUM

PHASE 1  
PHASE 2

SLOPE AT  
TOP OF DIKE

RIVERSIDE AVE

**PLAN**  
Scale 1:200



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0	2022-04-05	EJW	MD	EJW	ISSUED FOR TENDER

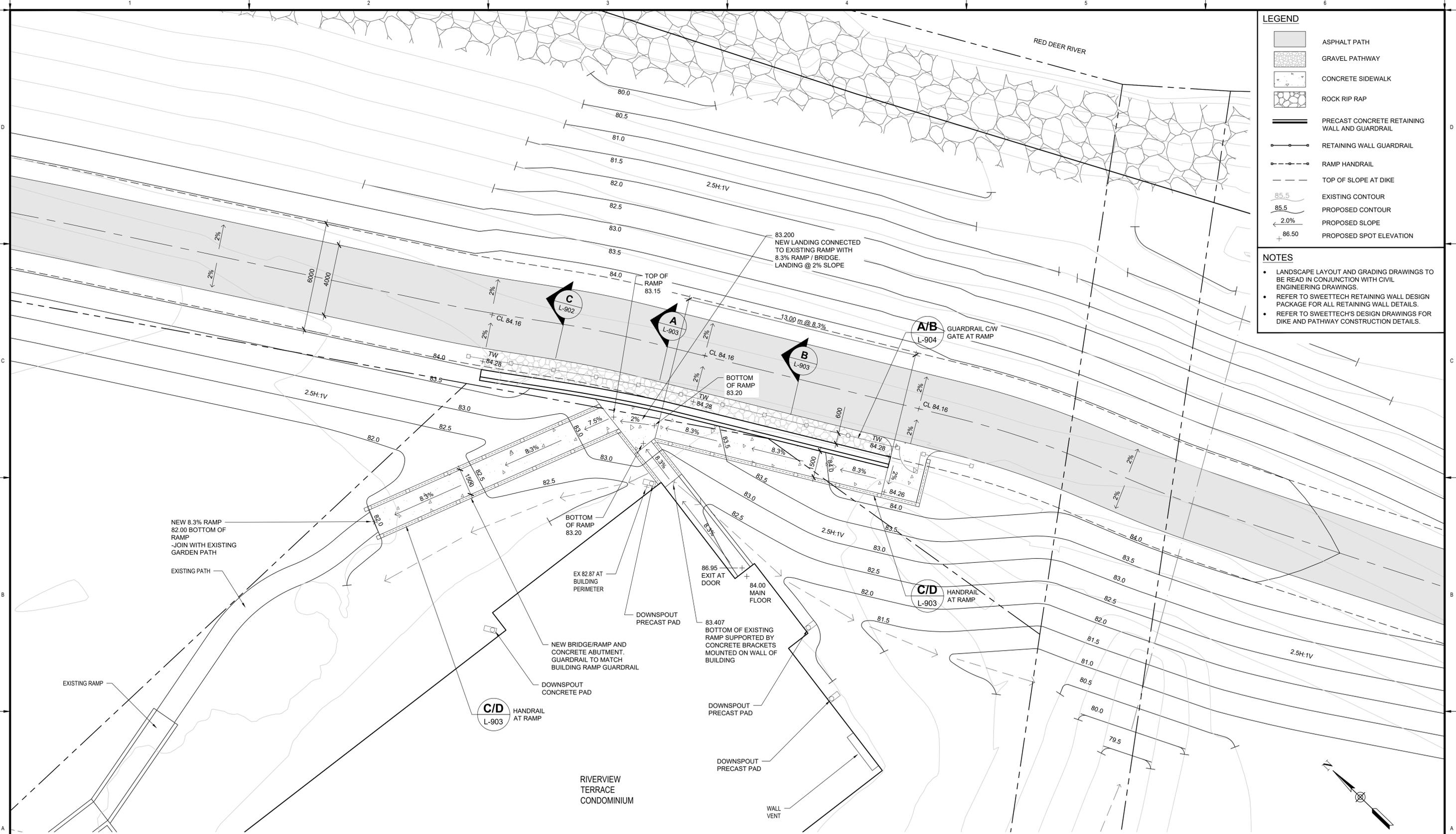
Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE**

**PHASE 1  
LAYOUT & GRADING PLAN**

Project No. **133142** Drawing No. **L-307** Rev. **A**

Group **LANDSCAPE**



**LEGEND**

[Symbol]	ASPHALT PATH
[Symbol]	GRAVEL PATHWAY
[Symbol]	CONCRETE SIDEWALK
[Symbol]	ROCK RIP RAP
[Symbol]	PRECAST CONCRETE RETAINING WALL AND GUARDRAIL
[Symbol]	RETAINING WALL GUARDRAIL
[Symbol]	RAMP HANDRAIL
[Symbol]	TOP OF SLOPE AT DIKE
85.5	EXISTING CONTOUR
85.5	PROPOSED CONTOUR
2.0%	PROPOSED SLOPE
+ 86.50	PROPOSED SPOT ELEVATION

- NOTES**
- LANDSCAPE LAYOUT AND GRADING DRAWINGS TO BE READ IN CONJUNCTION WITH CIVIL ENGINEERING DRAWINGS.
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**PLAN**  
Scale 1:100



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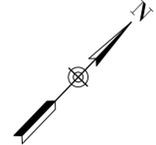
Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE**

**PHASE 1  
LAYOUT & GRADING PLAN  
RIVERVIEW TERRACE CONDOMINIUM**

Project No. **133142** Drawing No. **L-308** Rev. **A**  
Group **LANDSCAPE**

LEGEND	
	EXISTING TREE
	PROPOSED 50-80 mm CAL. DECIDUOUS TREE
	PROPOSED CONTAINER DECIDUOUS TREE
	PROPOSED PLUG PLANTING AREAS
	PROPOSED CONIFEROUS TREE
	SEED MIX 1 -WET TOLERANT (BELOW 1:2 YEAR HWL) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 2A UPLAND AREAS (WET SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 2B UPLAND AREAS (DRY SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 3 (TOP OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SOD ON 150mm DEPTH NATIVE TOPSOIL (TOP OF DIKE PATH EDGE AND MANICURED PARKLAND AREAS)



RED DEER RIVER

7 EASTERN COTTONWOOD  
 6 MANITOBA MAPLE (#15 CONT.)  
 3 BLACK COTTONWOOD (70mm CAL.)

(32m<sup>2</sup>) SEEDLING / SHRUB MIXTURE:  
 10 MANITOBA MAPLE  
 9 EASTERN COTTONWOOD  
 7 WOODS ROSE  
 6 POTENTILLA GOLD DROP  
 3 TREMBLING ASPEN (#15 CONT.)

(32m<sup>2</sup>) SEEDLING / SHRUB MIXTURE:  
 19 BLACK COTTONWOOD  
 7 SASKATOON  
 6 RED OSIER DOGWOOD

BLUE SPRUCE  
 1 @ 1500mm HT.  
 1 @ 2000mm HT.  
 1 @ 2500mm HT.

1 PATMORE GREEN ASH (70mm CAL.)

DRUMHELLER AQUAPLEX

SEE L-402  
 SEE L-401

**PLAN**  
 Scale 1:200



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**TOWN OF DRUMHELLER  
 DOWNTOWN DIKE  
 PHASE 1  
 PLANTING PLAN**

Project No. **133142** Drawing No. **L-401** Rev. **A**  
 Group **LANDSCAPE**

**LEGEND**

- EXISTING TREE
- PROPOSED 50-80 mm CAL. DECIDUOUS TREE
- PROPOSED CONTAINER DECIDUOUS TREE
- PROPOSED PLUG PLANTING AREAS
- PROPOSED CONIFEROUS TREE
- SEED MIX 1 -WET TOLERANT (BELOW 1:2 YEAR HWL) ON 150mm DEPTH NATIVE TOPSOIL
- SEED MIX 2A UPLAND AREAS (WET SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
- SEED MIX 2B UPLAND AREAS (DRY SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
- SEED MIX 3 (TOP OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
- SOD ON 150mm DEPTH NATIVE TOPSOIL (TOP OF DIKE PATH EDGE AND MANICURED PARKLAND AREAS)



RED DEER RIVER

4 MANITOBA MAPLE  
3 EASTERN COTTONWOOD (#15 CONT.)  
3 BLACK COTTONWOOD (70mm CAL.)

(32m²) SEEDLING / SHRUB MIXTURE:  
14 RED OSIER DOGWOOD  
18 BUFFALOBERRY  
5 TREMBLING ASPEN (#15 CONT.)  
3 TREMBLING ASPEN (#15 CONT.)  
1 EASTERN COTTONWOOD (70mm CAL.)  
8 MANITOBA MAPLE (#15 CONT.)  
(32m²) SEEDLING / SHRUB MIXTURE:  
10 BLACK COTTONWOOD  
11 RED OSIER DOGWOOD  
10 ABBOTSWOOD POTENTILLA  
1 BLACK COTTONWOOD (70mm CAL.)

1 THUNDERCHILD FLOWERING CRAB (70mm CAL.)  
WHITE SPRUCE  
1 @ 1500mm HT.  
2 @ 2500mm HT.  
BLUE SPRUCE  
1 @ 1500mm HT.  
2 @ 2500mm HT.

1 PRAIRIE SPIRE GREEN ASH (70mm CAL.)

3 SPRING SNOW FLOWERING CRAB (70mm CAL.)

2 PYRAMIDAL MOUNTAIN ASH (70mm CAL.)

WHITE SPRUCE  
3 @ 1500mm HT.  
2 @ 2500mm HT.

DRUMHELLER AQUAPLEX

SKATE PARK

TOP OF SLOPE AT DIKE

SEE L-402  
SEE L-401

SEE L-402  
SEE L-404

SEE L-403  
SEE L-402

**PLAN**  
Scale 1:200



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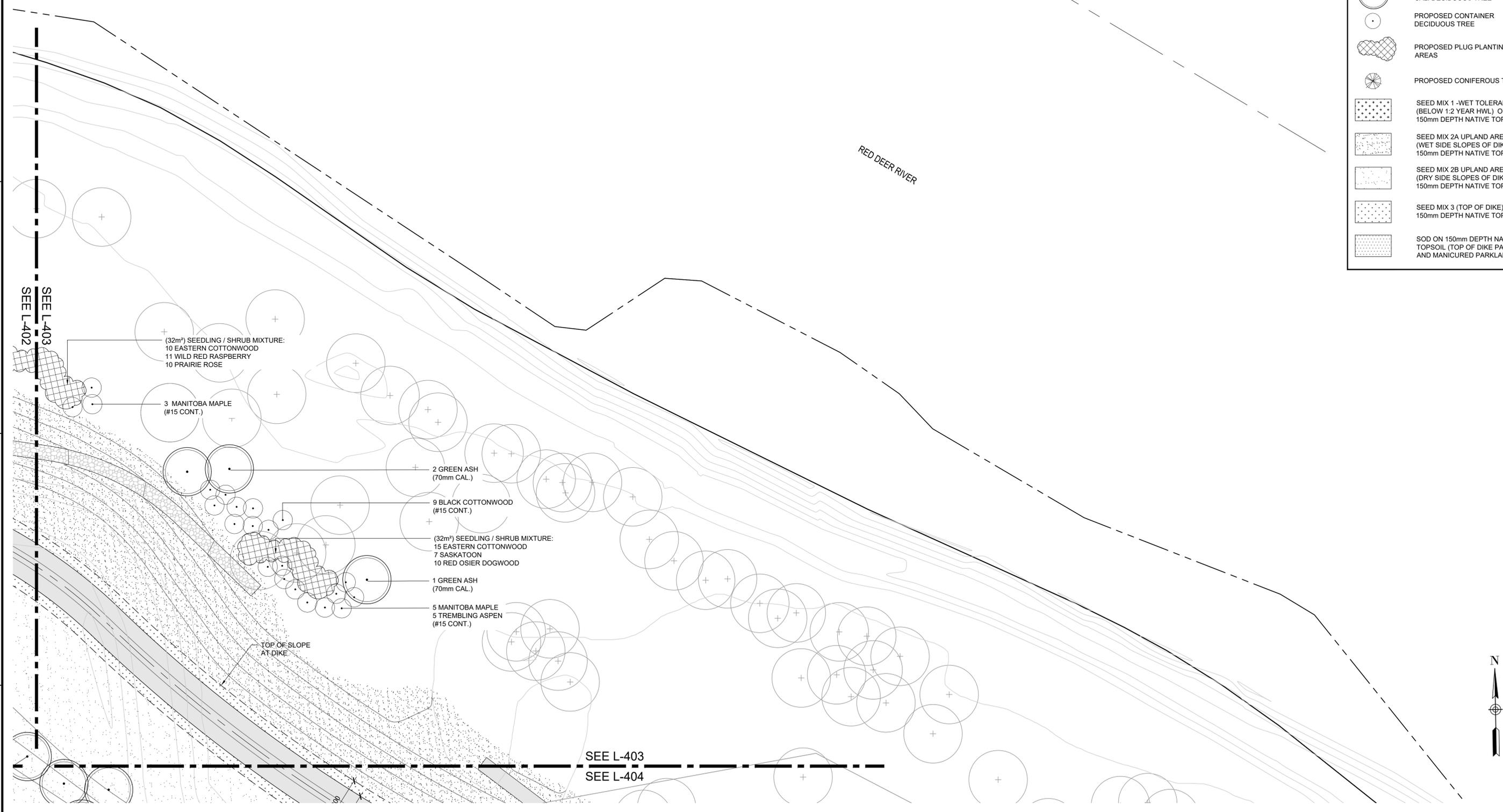
**TOWN OF DRUMHELLER  
DOWNTOWN DIKE  
PHASE 1  
PLANTING PLAN**

Project No. **133142** Drawing No. **L-402** Rev. **A**  
Group **LANDSCAPE**



LEGEND	
	EXISTING TREE
	PROPOSED 50-80 mm CAL. DECIDUOUS TREE
	PROPOSED CONTAINER DECIDUOUS TREE
	PROPOSED PLUG PLANTING AREAS
	PROPOSED CONIFEROUS TREE
	SEED MIX 1 -WET TOLERANT (BELOW 1:2 YEAR HWL) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 2A UPLAND AREAS (WET SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 2B UPLAND AREAS (DRY SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 3 (TOP OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SOD ON 150mm DEPTH NATIVE TOPSOIL (TOP OF DIKE PATH EDGE AND MANICURED PARKLAND AREAS)

RED DEER RIVER



(32m²) SEEDLING / SHRUB MIXTURE:  
 10 EASTERN COTTONWOOD  
 11 WILD RED RASPBERRY  
 10 PRAIRIE ROSE

3 MANITOBA MAPLE  
 (#15 CONT.)

2 GREEN ASH  
 (70mm CAL.)

9 BLACK COTTONWOOD  
 (#15 CONT.)

(32m²) SEEDLING / SHRUB MIXTURE:  
 15 EASTERN COTTONWOOD  
 7 SASKATOON  
 10 RED OSIER DOGWOOD

1 GREEN ASH  
 (70mm CAL.)

5 MANITOBA MAPLE  
 5 TREMBLING ASPEN  
 (#15 CONT.)

TOP OF SLOPE  
 AT DIKE

SEE L-403  
 SEE L-404



**PLAN**  
 Scale 1:200



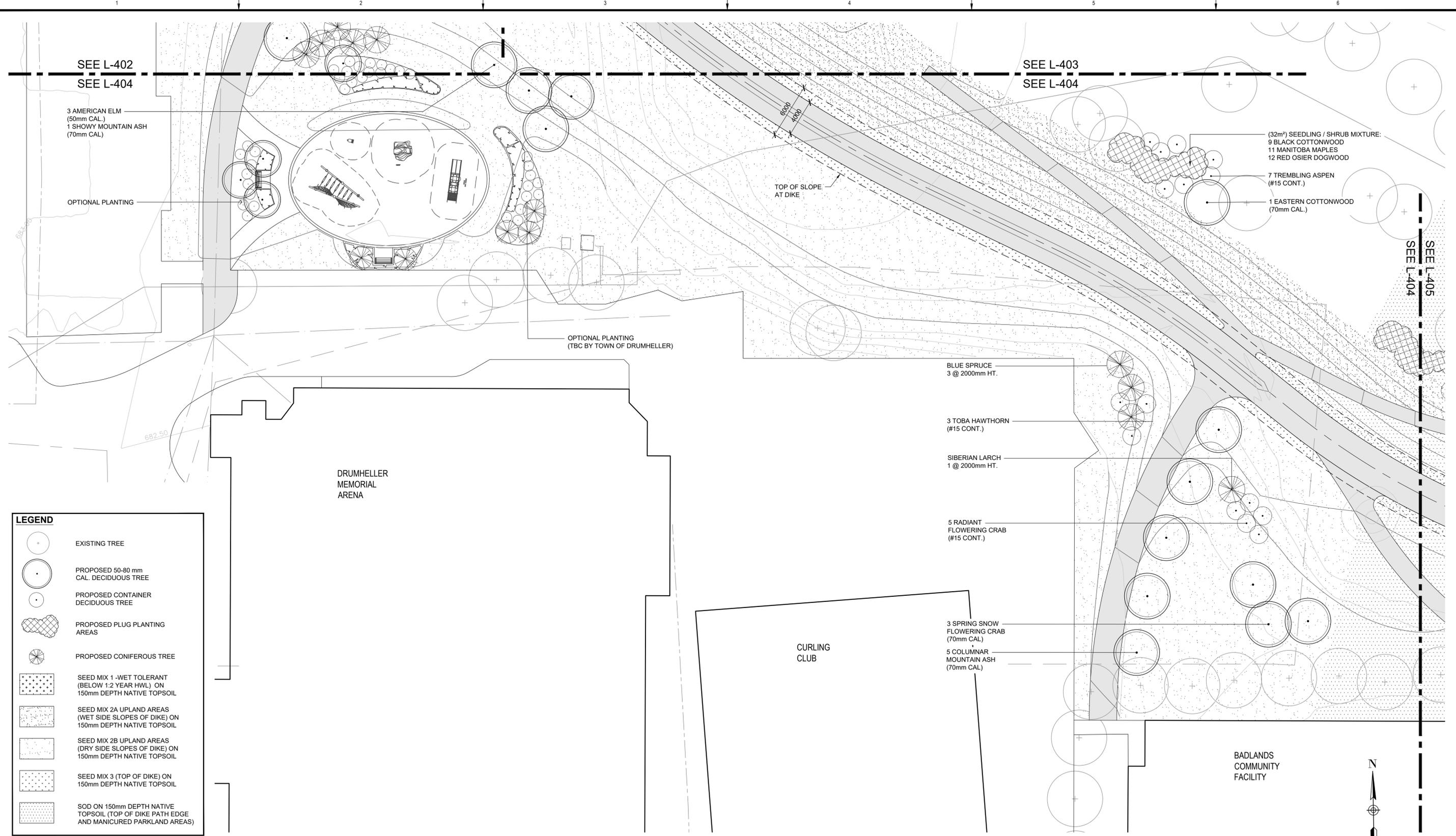
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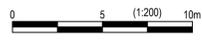
<b>TOWN OF DRUMHELLER DOWNTOWN DIKE</b>			
<b>PHASE 1 PLANTING PLAN</b>			
Project No.	133142	Drawing No.	L-403
Group	LANDSCAPE	Rev.	A



**LEGEND**

	EXISTING TREE
	PROPOSED 50-80 mm CAL. DECIDUOUS TREE
	PROPOSED CONTAINER DECIDUOUS TREE
	PROPOSED PLUG PLANTING AREAS
	PROPOSED CONIFEROUS TREE
	SEED MIX 1 -WET TOLERANT (BELOW 1:2 YEAR HWL) ON 150mm DEPTH NATIVE TOPSOIL
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	SEED MIX 2B UPLAND AREAS (DRY SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 3 (TOP OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SOD ON 150mm DEPTH NATIVE TOPSOIL (TOP OF DIKE PATH EDGE AND MANICURED PARKLAND AREAS)

**PLAN**  
Scale 1:200



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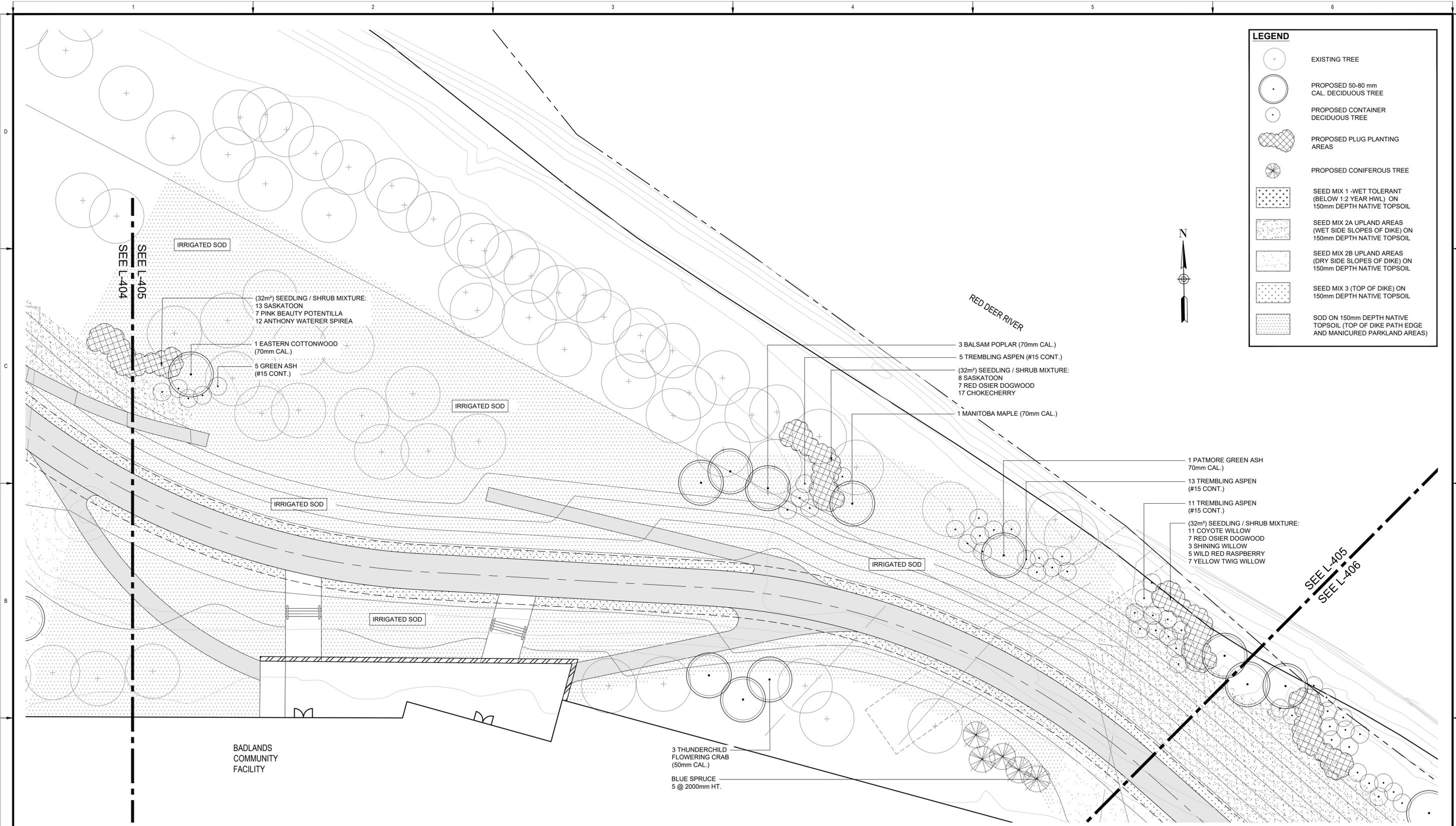
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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE  
PHASE 1  
PLANTING PLAN**

Project No. 133142      Drawing No.      Rev. A  
Group LANDSCAPE      **L-404**



**LEGEND**

- EXISTING TREE
- PROPOSED 50-80 mm CAL. DECIDUOUS TREE
- PROPOSED CONTAINER DECIDUOUS TREE
- PROPOSED PLUG PLANTING AREAS
- PROPOSED CONIFEROUS TREE
- SEED MIX 1 -WET TOLERANT (BELOW 1:2 YEAR HWL) ON 150mm DEPTH NATIVE TOPSOIL
- SEED MIX 2A UPLAND AREAS (WET SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
- SEED MIX 2B UPLAND AREAS (DRY SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
- SEED MIX 3 (TOP OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
- SOD ON 150mm DEPTH NATIVE TOPSOIL (TOP OF DIKE PATH EDGE AND MANICURED PARKLAND AREAS)



**PLAN**  
Scale 1:200



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**TOWN OF DRUMHELLER  
DOWNTOWN DIKE  
PHASE 1  
PLANTING PLAN**

Project No. **133142** Drawing No. **L-405** Rev. **A**  
Group **LANDSCAPE**

SEE L-405  
SEE L-406

SEE L-407  
SEE L-406

3 EASTERN COTTONWOOD  
(70mm CAL.)  
11 MANITOBA MAPLE  
(#15 CONT.)  
(32m<sup>2</sup>) SEEDLING / SHRUB MIXTURE:  
12 RED OSIER DOGWOOD  
20 YELLOW TWIG WILLOW

RED DEER RIVER

6 BLACK COTTONWOOD  
(#15 CONT.)

1 EASTERN COTTONWOOD  
(70mm CAL.)

(32m<sup>2</sup>) SEEDLING / SHRUB MIXTURE:  
12 RED OSIER DOGWOOD  
13 SHINING WILLOW  
7 EASTERN COTTONWOOD

(32m<sup>2</sup>) SEEDLING / SHRUB MIXTURE:  
12 RED OSIER DOGWOOD  
10 YELLOW TWIG WILLOW  
10 COYOTE WILLOW

WHITE SPRUCE  
3 @ 2500mm HT.

5 BALSAM POPLAR  
(70mm CAL.)

BLUE SPRUCE  
3 @ 2000mm HT.

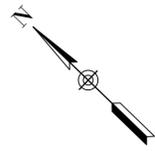
TOP OF SLOPE  
AT DIKE

BADLANDS  
COMMUNITY  
FACILITY

**LEGEND**

- EXISTING TREE
- PROPOSED 50-80 mm CAL. DECIDUOUS TREE
- PROPOSED CONTAINER DECIDUOUS TREE
- PROPOSED PLUG PLANTING AREAS
- PROPOSED CONIFEROUS TREE
- SEED MIX 1 -WET TOLERANT (BELOW 1:2 YEAR HWL) ON 150mm DEPTH NATIVE TOPSOIL
- SEED MIX 2A UPLAND AREAS (WET SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
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**PLAN**  
Scale 1:200



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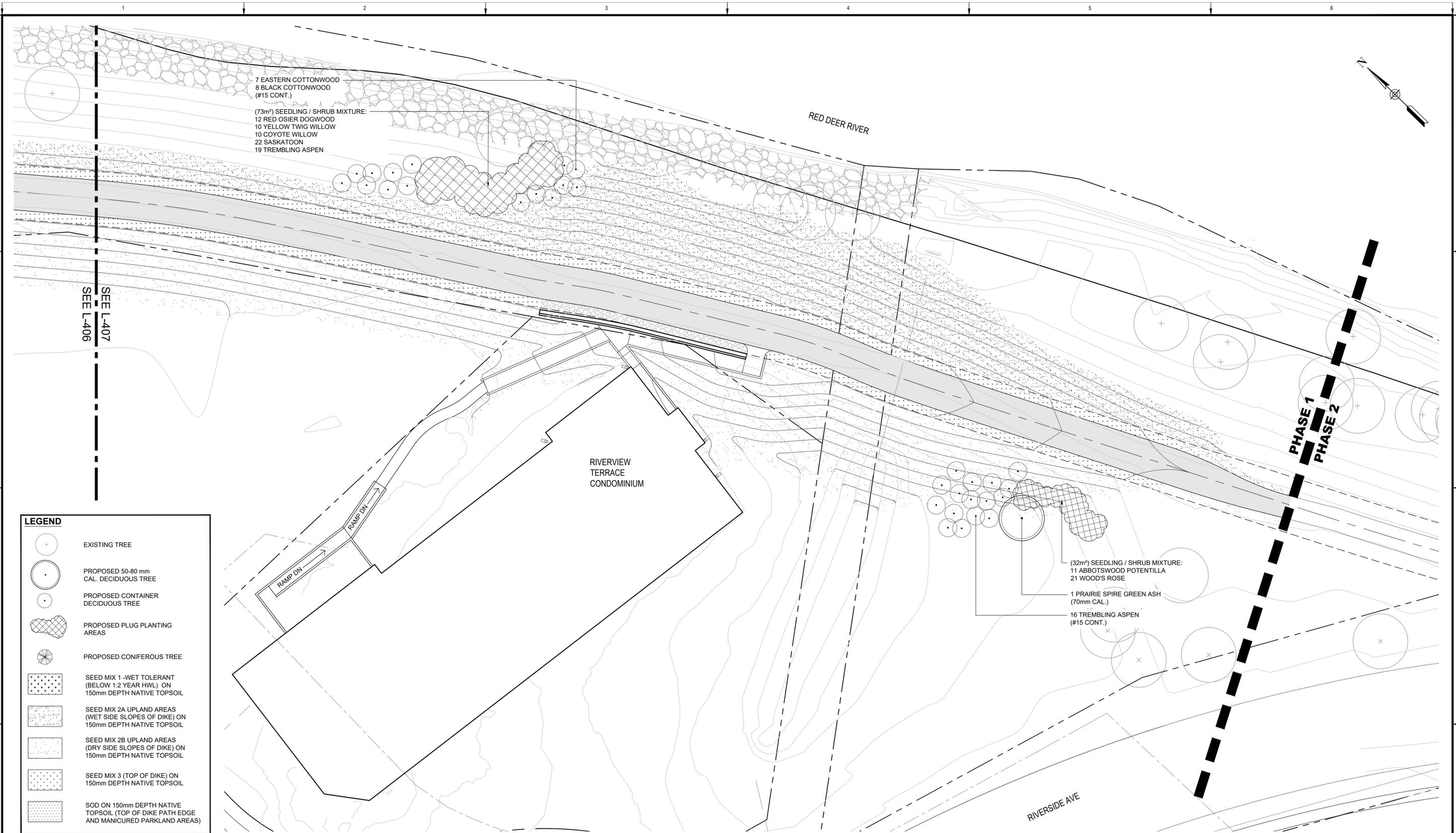
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Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE  
PHASE 1  
PLANTING PLAN**

Project No. **133142** Drawing No. **L-406** Rev. **A**  
Group **LANDSCAPE**



**LEGEND**

	EXISTING TREE
	PROPOSED 50-80 mm CAL. DECIDUOUS TREE
	PROPOSED CONTAINER DECIDUOUS TREE
	PROPOSED PLUG PLANTING AREAS
	PROPOSED CONIFEROUS TREE
	SEED MIX 1 - WET TOLERANT (BELOW 1:2 YEAR HWL) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 2A UPLAND AREAS (WET SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 2B UPLAND AREAS (DRY SIDE SLOPES OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SEED MIX 3 (TOP OF DIKE) ON 150mm DEPTH NATIVE TOPSOIL
	SOD ON 150mm DEPTH NATIVE TOPSOIL (TOP OF DIKE PATH EDGE AND MANICURED PARKLAND AREAS)

**PLAN**  
Scale 1:200



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<b>TOWN OF DRUMHELLER DOWNTOWN DIKE</b>	
<b>PHASE 1 PLANTING PLAN</b>	
Project No. <b>133142</b>	Drawing No. <b>L-407</b>
Group <b>LANDSCAPE</b>	Rev. <b>A</b>

**TREE PLANTING SCHEDULE**

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
<b>CONIFEROUS TREES</b>				
7	PICEA GLAUCA	WHITE SPRUCE	2500mm HT.	B&B
3	PICEA GLAUCA	WHITE SPRUCE	2000mm HT.	B&B
4	PICEA GLAUCA	WHITE SPRUCE	1500mm HT.	B&B
3	PICEA PUNGENS	COLORADO SPRUCE	2500mm HT.	B&B
9	PICEA PUNGENS	COLORADO SPRUCE	2000mm HT.	B&B
2	PICEA PUNGENS	COLORADO SPRUCE	1500mm HT.	B&B
<b>DECIDUOUS TREES</b>				
1	ACER NEGUNDO	MANITOBA MAPLE	70mm CAL.	B&B
37	ACER NEGUNDO	MANITOBA MAPLE	#15 CONT.	B&B
3	CRATAEGUS X MORDENENSIS 'TOBA'	TOBA HAWTHORN	#15 CONT.	B&B
3	FRAXINUS PENNSYLVANICA	GREEN ASH	70mm CAL.	B&B
5	FRAXINUS PENNSYLVANICA	GREEN ASH	#15 CONT.	B&B
2	FRAXINUS PENNSYLVANICA 'PATMORE'	PATMORE GREEN ASH	70mm CAL.	B&B
2	FRAXINUS PENNSYLVANICA 'PRAIRIE SPIRE'	PRAIRIE SPIRE GREEN ASH	70mm CAL.	B&B
1	LARIX SIBIRICA	SIBERIAN LARCH	2000mm HT.	B&B
5	MALUS x 'RADIANT'	RADIANT FLOWERING CRABAPPLE	#15 CONT.	B&B
6	MALUS x 'SPRING SNOW'	SPRING SNOW FLOWERING CRABAPPLE	70mm CAL.	B&B
1	MALUS x 'THUNDERCHILD'	THUNDERCHILD FLOWERING CRABAPPLE	70mm CAL.	B&B
3	MALUS x 'THUNDERCHILD'	THUNDERCHILD FLOWERING CRABAPPLE	50mm CAL.	B&B
8	POPULUS BALSAMIFERA	BALSAM POPLAR	70mm CAL.	B&B
7	POPULUS DELTOIDES	EASTERN COTTONWOOD	70mm CAL.	B&B
17	POPULUS DELTOIDES	EASTERN COTTONWOOD	#15 CONT.	B&B
62	POPULUS TREMULOIDES	TREMBLING ASPEN	#15 CONT.	B&B
7	POPULUS TRICHOCARPA	BLACK COTTONWOOD	70mm CAL.	B&B
23	POPULUS TRICHOCARPA	BLACK COTTONWOOD	#15 CONT.	B&B
2	SORBUS AUCLUPARIA 'FASTIGIATA'	PYRAMIDAL MOUNTAIN ASH	70mm CAL.	B&B
1	SORBUS DECORA	SHOWY MOUNTAIN ASH	70mm CAL.	B&B
5	SORBUS THURINGIACA FASTIGIATA	COLUMNAR MOUNTAIN ASH	70mm CAL.	B&B
3	ULMUS AMERICANA	AMERICAN ELM	50mm CAL.	B&B

**SHRUB AND TREE SEEDLING SCHEDULE**

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	CONDITION
<b>DECIDUOUS SHRUBS</b>				
21	ACER NEGUNDO	MANITOBA MAPLE		SEEDLING
57	AMELANCHIER ALNIFOLIA	SASKATOON	600mm HT.	#2 CONT.
115	CORNUS SERICEA	RED OSIER DOGWOOD	600mm HT.	#2 CONT.
41	POPULUS DELTOIDES	EASTERN COTTONWOOD		SEEDLING
19	POPULUS TREMULOIDES	TREMBLING ASPEN		SEEDLING
38	POPULUS TRICHOCARPA	BLACK COTTONWOOD		SEEDLING
21	POTENTILLA FRUTICOSA 'ABBOTSWOOD'	ABBOTSWOOD POTENTILLA	400mm HT.	#2 CONT.
6	POTENTILLA FRUTICOSA 'GOLD DROP'	GOLD DROP POTENTILLA	400mm HT.	#2 CONT.
7	POTENTILLA FRUTICOSA 'PINK BEAUTY'	PINK BEAUTY POTENTILLA	400mm HT.	#2 CONT.
17	PRUNUS VIRGINIANA	CHOKECHERRY	600mm HT.	#2 CONT.
10	ROSA ARKANSANA	PRAIRIE ROSE	400mm HT.	#2 CONT.
28	ROSA WOODSII	WOODS ROSE	400mm HT.	#2 CONT.
16	RUBUS IDAEUS	WILD RED RASPBERRY	600mm HT.	#2 CONT.
31	SALIX EXIGUA	COYOTE WILLOW	600mm HT.	#2 CONT.
16	SALIX LUCIDA	SHINING WILLOW	600mm HT.	#2 CONT.
47	SALIX LUTEA	YELLOW TWIG WILLOW	600mm HT.	#2 CONT.
18	SHEPHERDIA ARGENTEA	SILVER BUFFALOBERRY	600mm HT.	#2 CONT.
12	SPIRAEA X BUMALDA 'ANTHONY WATERER'	ANTHONY WATERER SPIREA	400mm HT.	#2 CONT.

**NOTES**

- ALL SHRUB AND TREE BEDS ARE TO BE LAID OUT IN THE FIELD AFTER COMPLETION OF THE DIKE GRADING. PLANTING BED LOCATIONS TO BE VERIFIED CORRECT BY THE LANDSCAPE ARCHITECT IN THE FIELD, PRIOR TO EXCAVATION OF BEDS. ADJUSTMENTS MAY BE REQUIRED DEPENDING ON THE LOCATION OF ADJACENT EXISTING MATURE TREES AND VEGETATION
- ANY PROPOSED ALTERNATE PLANT MATERIALS SHOULD COME FROM THE LIST ABOVE AND BE APPROVED BY THE LANDSCAPE ARCHITECT PRIOR TO ORDERING.

**PHASE 1 TREE PLANTING STRATEGY**

TOTAL NUMBER OF FAIR, GOOD AND VERY GOOD TREES TO BE REMOVED = 307  
 TOTAL NUMBER OF NEW TREES AND SHRUBS TO BE PLANTED IN LIEU OF REMOVALS = 1535

(As per the Town of Drumheller "Preserving and Enhancing The Urban Forest Standards and Techniques", where a 5:1 ratio of planting replacement is specified, for every 1 fair, good, or very good tree that is removed, 5 trees/shrubs will be planted)

**TOTAL REPLACEMENT PLANTS (PHASE 1) = 758**

BREAKDOWN:  
 MED-LARGE TREES (50-70mm CAL.) = 80 (11%)  
 SMALL CONTAINER GROWN TREES = 158 (21%)  
 SEEDLING TREES = 119 (16%)  
 SHRUBS = 401 (52%)

\*OTHER POTENTIAL LOCATIONS FOR PLANTING TO BE COORDINATED WITH THE DOWNTOWN PLAZA PLANS

**Seed Mix 1 - Wet Tolerant: Seed below 1:2-year high water mark - Application rate of 58 kg / ha.**

BOTANICAL NAME	COMMON NAME	TARGET COVER	% OF SEED MIX (PLS)	Kg REQUIRED (PLS)
Deschampsia caespitosa	Tufted Hairgrass	25%	3%	1.97
Pascopyrum smithii / Agropyron smithii	Western Wheatgrass	20%	32%	18.60
Bromus carinatus	Mountain Brome	5%	10%	5.68
Elymus trachycaulus / Agropyron trachycaulum var.	Slender Wheatgrass	10%	11%	6.39
Elymus canadensis	Canada Wildrye	15%	23%	13.34
Spartina pectinata	Alkali Cordgrass	25%	21%	11.66

Cover crop for Seed Mix 1 - Wet Tolerant: Slough Grass - Application rate of 5 kg / ha.

**Seed Mix 2A - Upland Areas: Wet side slopes of dike, not likely susceptible to inundation - Application rate of 58 kg / ha.**

BOTANICAL NAME	COMMON NAME	TARGET COVER	% OF SEED MIX (PLS)	Kg REQUIRED (PLS)
Elymus lanceolatus / Agropyron dasystachyum	Northern Wheatgrass	15%	16%	9.30
Pascopyrum smithii / Agropyron smithii	Western Wheatgrass	20%	30%	17.36
Elymus trachycaulus / Agropyron trachycaulum var.	Slender Wheatgrass	10%	10%	5.97
Bouteloua gracilis	Blue Grama	10%	2%	0.88
Elymus canadensis	Canada Wildrye	10%	14%	8.30
Nassella viridula / Stipa viridula	Green Needlegrass	25%	27%	15.82
Koeleria macrantha	Junegrass	10%	1%	0.58

Cover crop for Seed Mix 2A - Upland Areas: Annual Ryegrass - application rate of 5 kg / ha.

**Seed Mix 3 - Top of Dike - Application rate of 50 kg / ha.**

BOTANICAL NAME	COMMON NAME	TARGET COVER	% OF SEED MIX (PLS)	Kg REQUIRED (PLS)
Elymus lanceolatus / Agropyron dasystachyum	Northern Wheatgrass	23%	46%	22.91
Pascopyrum smithii / Agropyron smithii	Western Wheatgrass	10%	23%	11.16
Bouteloua gracilis	Blue Grama	20%	6%	2.83
Hesperostipa comata / Stipa comata	Needle and Thread	2%	4%	2.13
Poa sandbergii	Sandberg Bluegrass	15%	6%	3.07
Nassella viridula / Stipa viridula	Green Needlegrass	5%	9%	4.24
Koeleria macrantha	Junegrass	23%	4%	2.13
Dalea purpurea	Purple Prairie Clover	2%	2%	1.02

Cover crop for Seed Mix 3 - Top of dike: Annual Ryegrass - application rate of 5 kg / ha.

**SEEDING NOTES**

- ENSURE SEED MIXTURE IS FREE OF ANY WEED SEEDS LISTED AS "PROHIBITED NOXIOUS" OR "NOXIOUS" UNDER THE WEED CONTROL ACT AND SEEDS OF OTHER SPECIES THAT WILL INTERFERE WITH THE GROWTH OF THE SPECIFIED SEED MIXTURE.
- SOW AT THE RATE INDICATED WITH SEED MIXES, DURING CALM WEATHER AND WHEN SOIL MOISTURE CONTENT IS ADEQUATE FOR GERMINATION.
- FOR SLOPES 2:1 OR FLATTER AREAS TO BE SEEDED THAT ARE EASILY ACCESSIBLE APPLY SEED USING A MECHANICAL DRY SPREAD "BRILLION" SEEDER THAT PLACES SEED AT SPECIFIED DEPTH AND RATE AND ROLLS IN A SINGLE OPERATION.
- FOR STEEPER THAN 2:1 SLOPES OR SLOPES THAT ARE NOT EASILY ACCESSIBLE USE MANUALLY OPERATED BROADCAST SEEDER.
- SOW SEED IN TWO DIRECTIONS, 50% OF SEED IN ONE DIRECTION AND REMAINING 50% OF SEED AT RIGHT ANGLES TO FIRST SEEDING PATTERN, USING SAME METHOD OF SEEDING.
- COVER BROADCASTED SEED BY HAND RAKING AND ATV HARROWING-IN.
- OPTIMAL SEEDING PERIODS FOR NATIVE GRASSES:
  - MID TO LATE MAY, EARLY JUNE - NO LATER THAN JUNE 15TH.
  - LATE SEPTEMBER - AFTER FIRST HARD FROST WHEN PLANTS GO DORMANT. DO NOT SEED NEAR END OF SEASON UNTIL THE RISK OF SEED GERMINATION IS LOW. SEED THAT GERMINATES AND DOES NOT FULLY ESTABLISH PRIOR TO END OF GROWING SEASON WILL LIKELY NOT OVERWINTER.
- WATER THE SEEDED AREAS AFTER SEEDING TO ACHIEVE GERMINATION AND A UNIFORM STAND OF GRASS. THE OWNER WILL DETERMINE THE WATERING SCHEDULE AND WILL PROVIDE THE CONTRACTOR WITH AT LEAST 24 HOURS ADVANCE NOTICE TO COMMENCE WATERING SEEDED AREAS.
- APPLY WATER UNIFORMLY TO SEEDED AREAS WITHOUT CAUSING DISPLACEMENT OR EROSION OF THE MATERIALS AND TOPSOIL.
- MINIMIZE TRAVEL ON SEEDED SURFACES.
- USE WATERING EQUIPMENT AND TECHNIQUES AUTHORIZED BY THE OWNER.

**SODDING NOTES**

- TO BE CONFIRMED IN FINAL TENDER DOCUMENTS
- ALL SODDED AREAS IN THE CENTRAL PARK AROUND BCF ARE TO BE IRRIGATED BY AN UNDERGROUND SPRINKLER SYSTEM AS PER DRAWINGS L-501 TO L-503.



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**TOWN OF DRUMHELLER  
DOWNTOWN DIKE**

**PHASE 1  
PLANT SCHEDULES**

Project No. **133142** Drawing No. **L-408** Rev. **A**

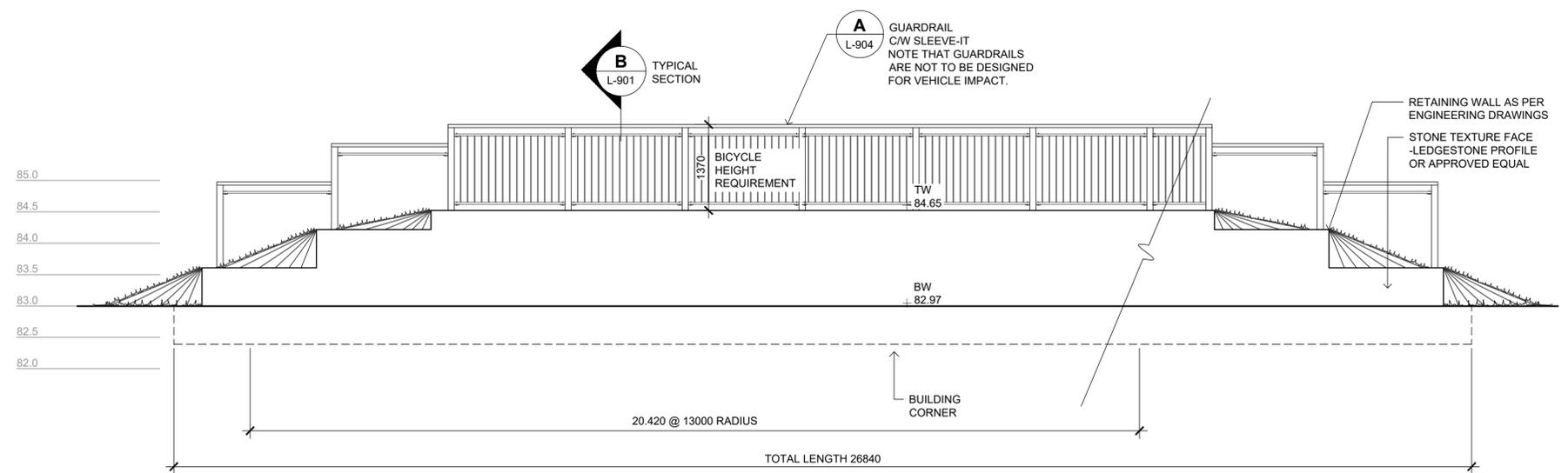
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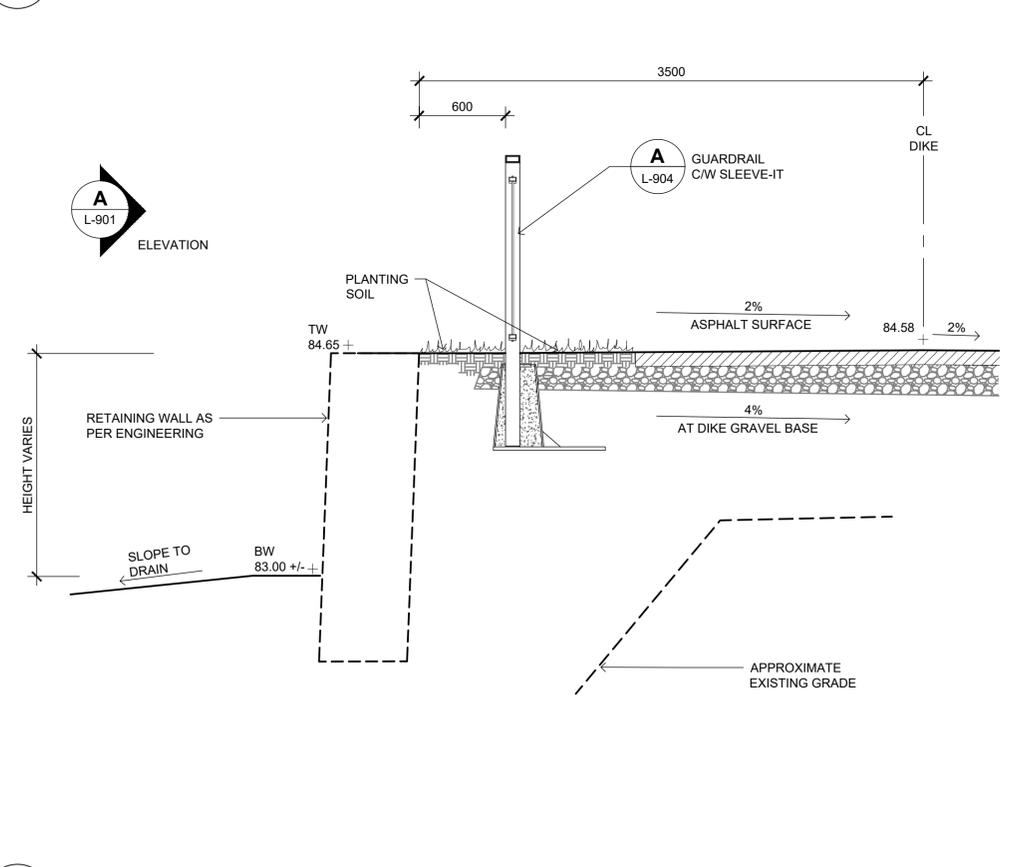


- NOTES**
- REFER TO SWEETECH RETAINING WALL DESIGN PACKAGE FOR ALL RETAINING WALL DETAILS.
  - REFER TO SWEETECH'S DESIGN DRAWINGS FOR DIKE AND PATHWAY CONSTRUCTION DETAILS.

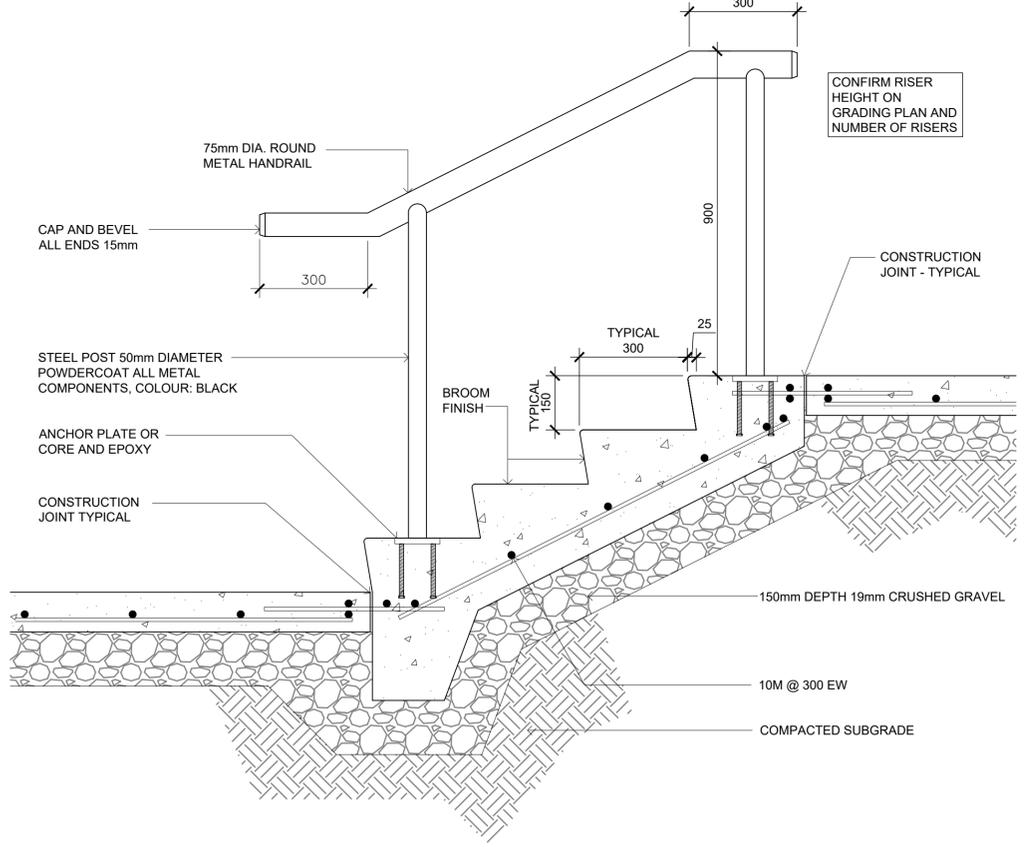


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- IF SITE CONDITIONS OR WALL HEIGHTS VARY FROM TYPICAL SECTIONS, THE RETAINING WALL DETAIL IS TO BE REVIEWED, PRIOR TO CONSTRUCTION.
- ALL PRECAST CONCRETE BLOCKS TO HAVE STONE TEXTURED FACE, LEDGESTONE PROFILE OR APPROVED EQUAL.
- GUARDRAILS ARE DESIGNED FOR PEDESTRIAN/ BICYCLIST SAFETY AND NOT DESIGNED FOR VEHICLE IMPACT.

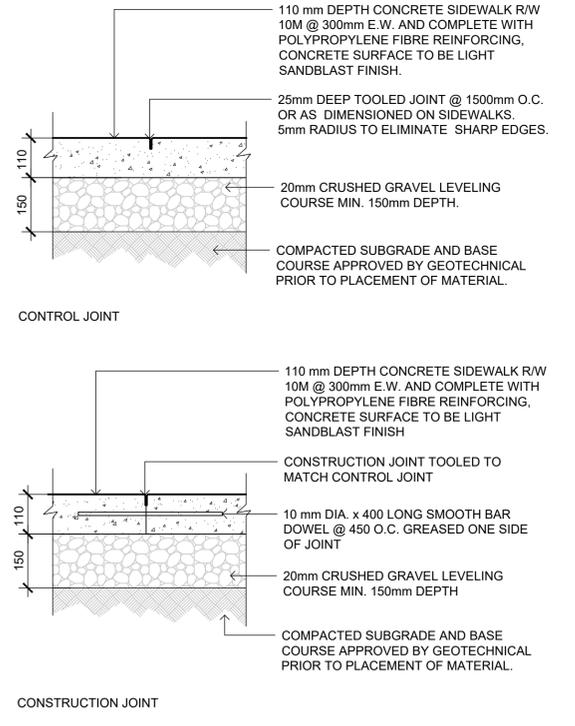
**A AQUAPLEX RETAINING WALL**  
 L-901 1:50 EXPANDED ELEVATION



**B TYPICAL WALL DETAIL AT AQUAPLEX**  
 L-901 1:25 SECTION



**C TYPICAL CONCRETE STAIRS AND HANDRAIL**  
 L-901 1:10



**D CONCRETE SIDEWALK**  
 L-901 SCALE 1:10



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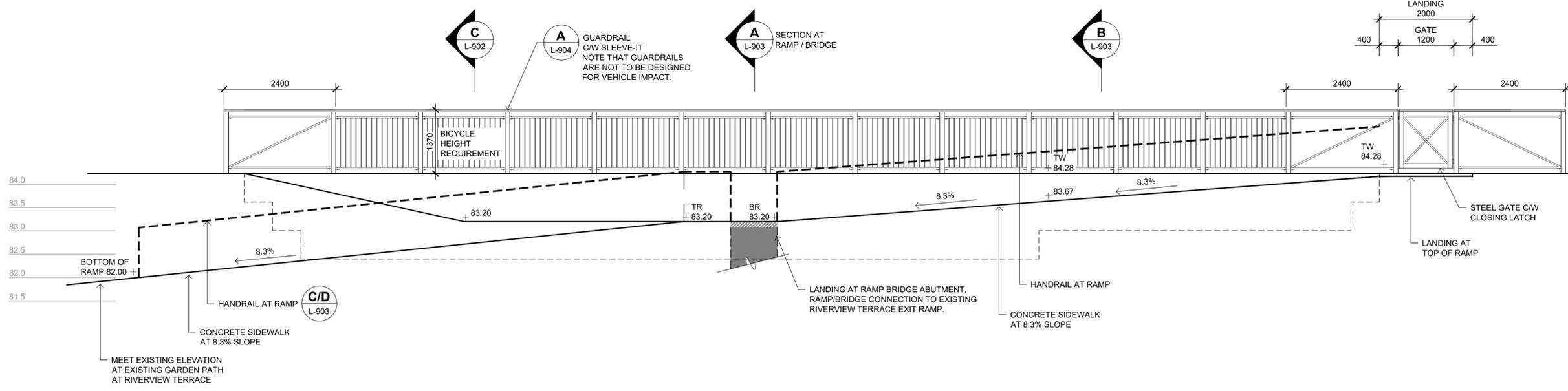
**TOWN OF DRUMHELLER  
 DOWNTOWN DIKE  
 PHASE 1  
 LANDSCAPE DETAILS**

Project No. **133142** Drawing No. **L-901** Rev. **A**

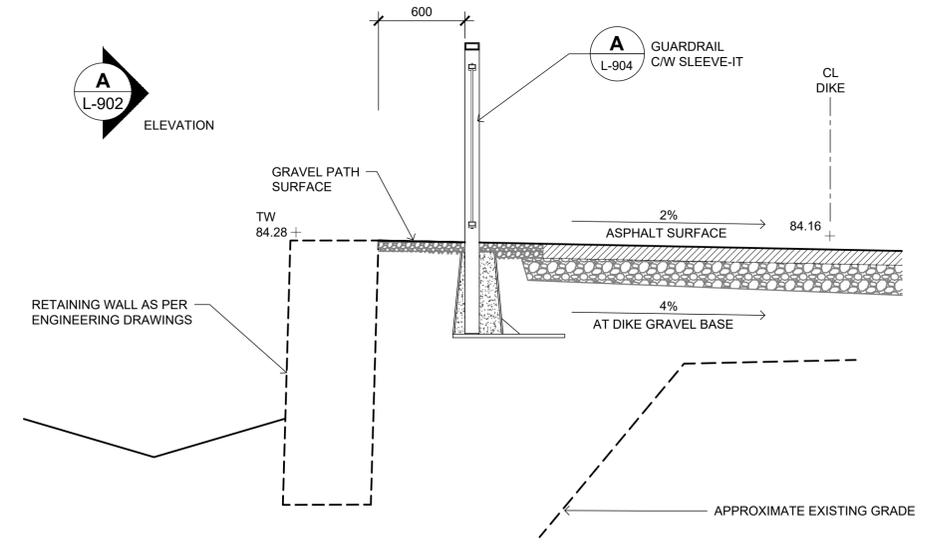
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**NOTES**

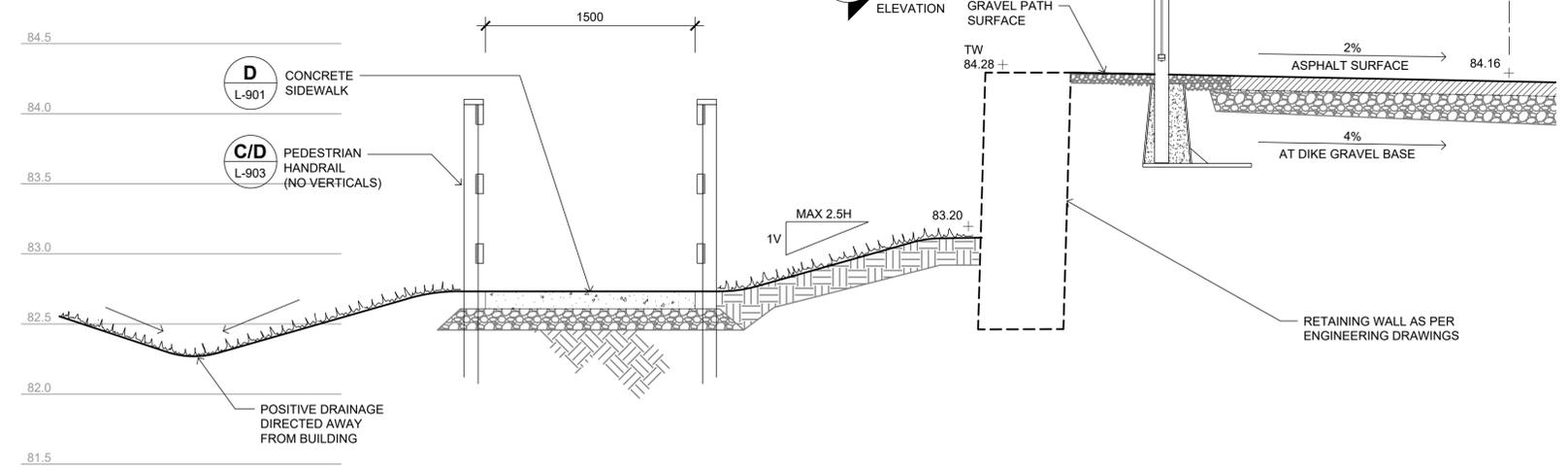
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**A RIVERVIEW TERRACE RETAINING WALL**  
 L-902 1:50 EXPANDED ELEVATION



**B TYPICAL WALL DETAIL AT RIVERVIEW TERRACE**  
 L-902 1:25 SECTION



**C WALL AND RAMP AT RIVERVIEW TERRACE**  
 L-902 1:25 SECTION



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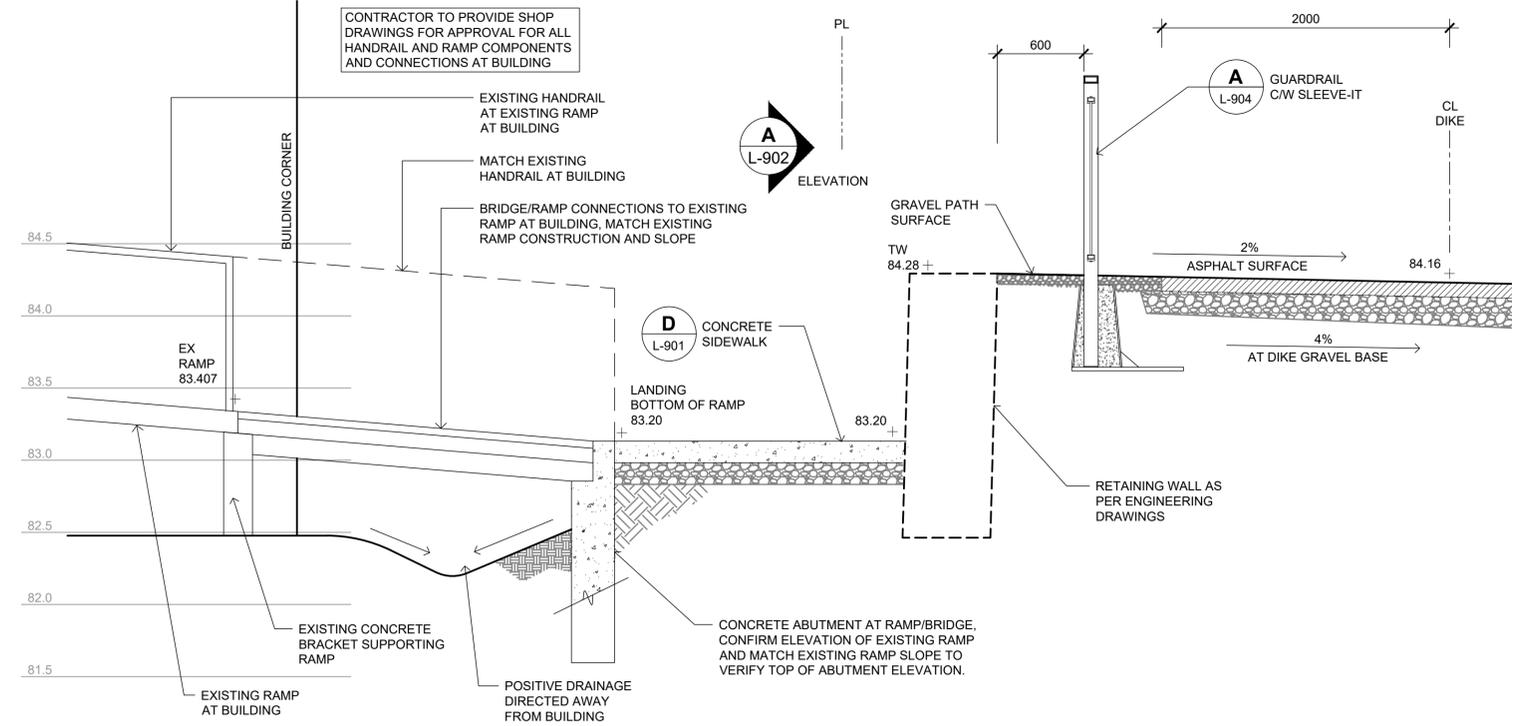
**TOWN OF DRUMHELLER  
 DOWNTOWN DIKE**

**PHASE 1  
 LANDSCAPE DETAILS**

Project No. **133142** Drawing No. **L-902** Rev. **A**

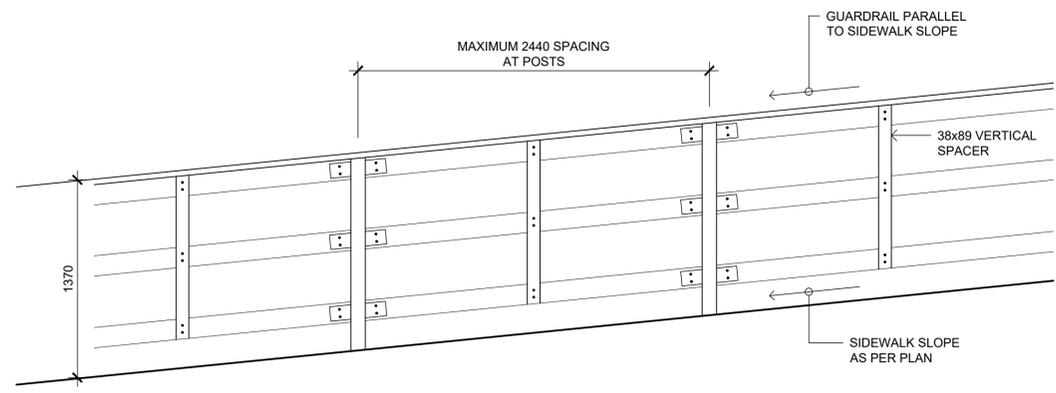
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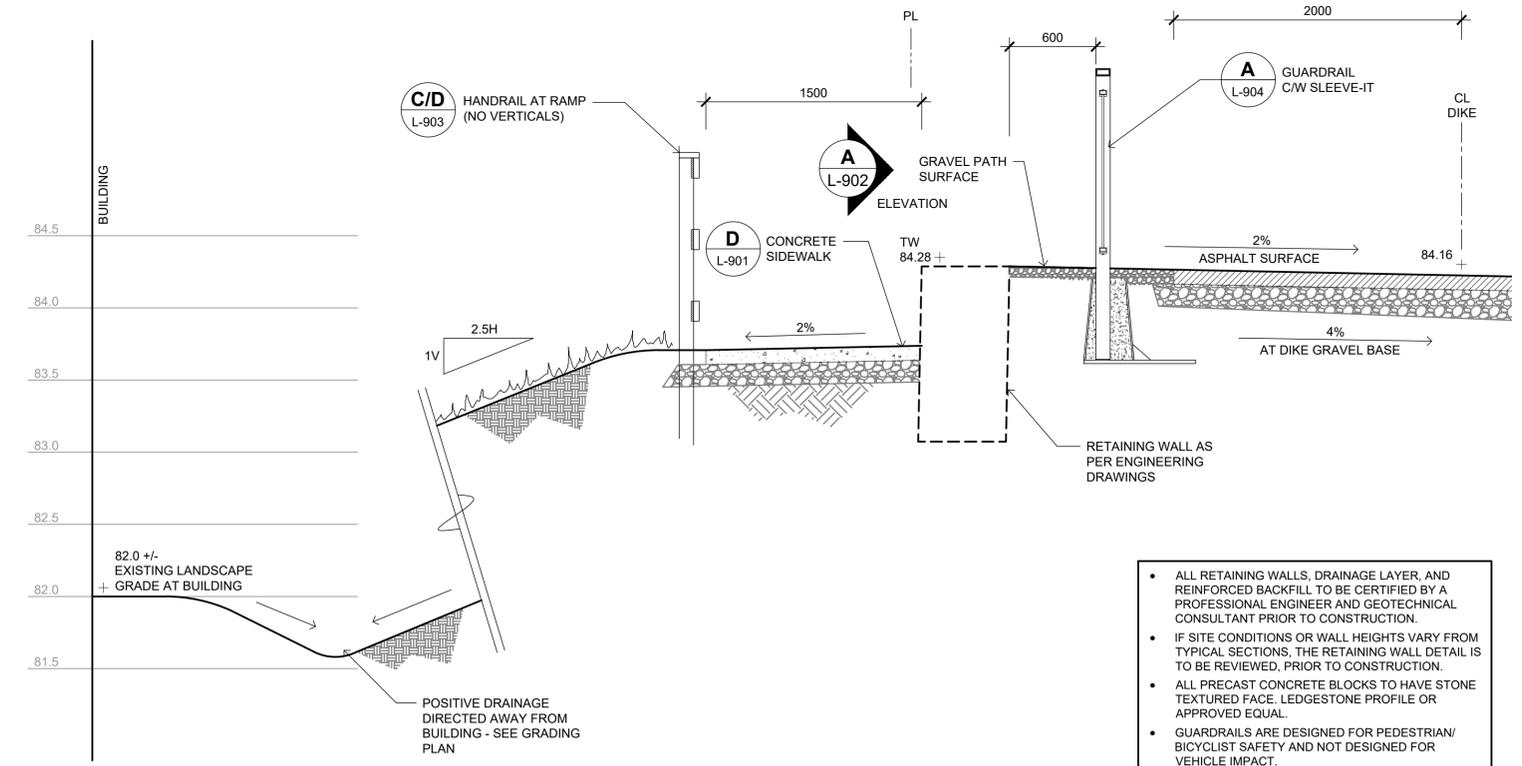
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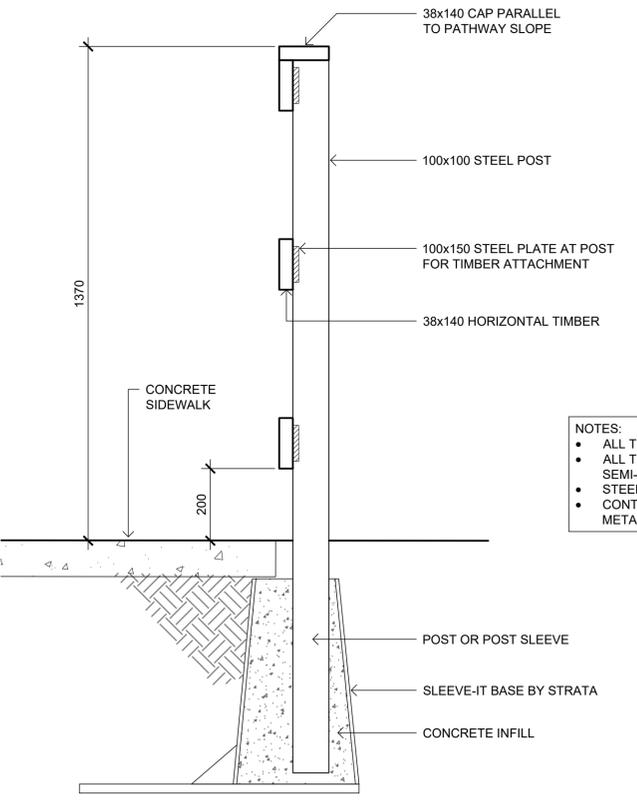
**A WALL AND RAMP AT RIVERVIEW TERRACE**  
L-903 1:25 SECTION

**C HANDRAIL AT RAMP**  
L-903 1:25 ELEVATION



- ALL RETAINING WALLS, DRAINAGE LAYER, AND REINFORCED BACKFILL TO BE CERTIFIED BY A PROFESSIONAL ENGINEER AND GEOTECHNICAL CONSULTANT PRIOR TO CONSTRUCTION.
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**B WALL AND RAMP AT RIVERVIEW TERRACE**  
L-903 1:25 SECTION



- NOTES:**
- ALL TIMBER TO BE PRESSURE TREATED
  - ALL TIMBER FINISH TO BE TWO COATS SEMI-TRANSPARENT STAIN, COLOUR MEDIUM GREY
  - STEEL POSTS, POWDER COAT FINISH, COLOUR BLACK
  - CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL METAL COMPONENTS.

**D HANDRAIL AT RAMP**  
L-903 1:10 SECTION



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**TOWN OF DRUMHELLER**  
**DOWNTOWN DIKE**

**PHASE 1**  
**LANDSCAPE DETAILS**

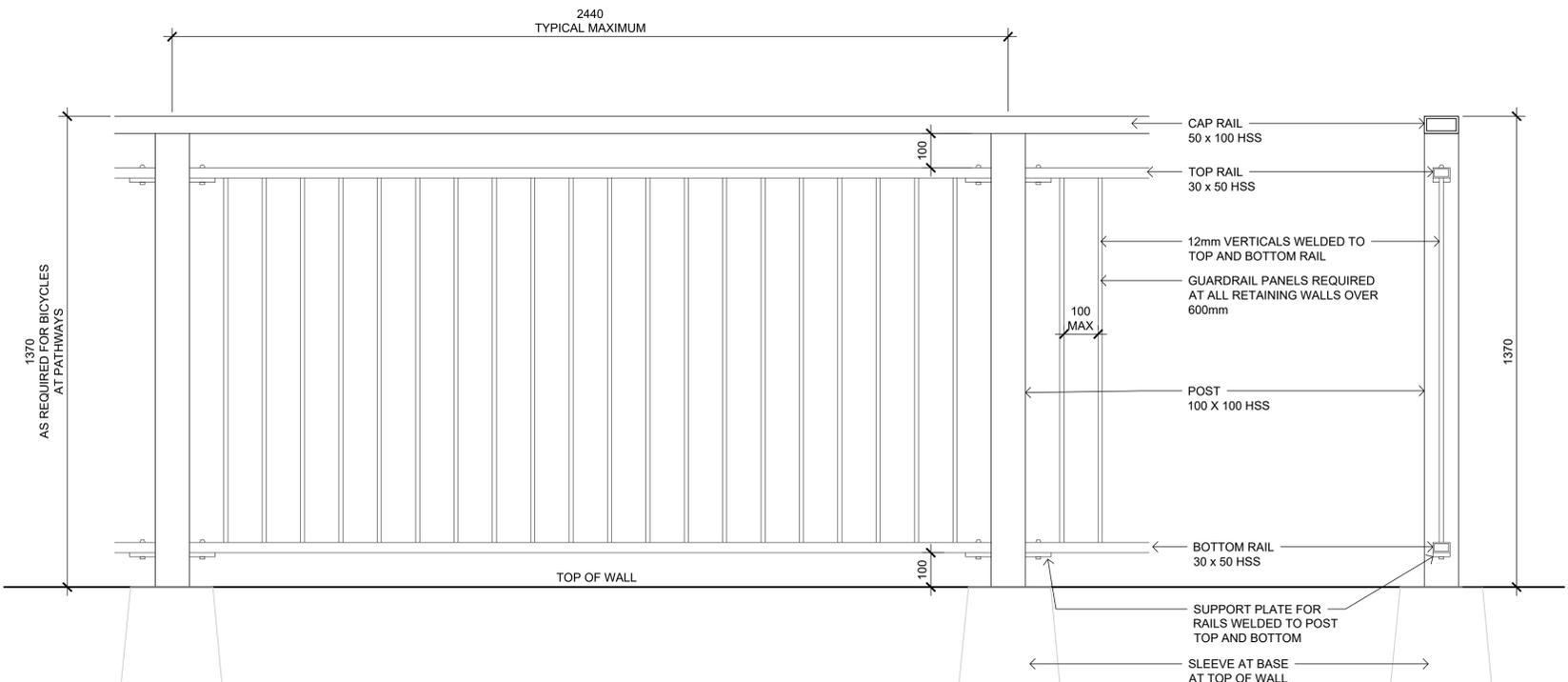
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Group **LANDSCAPE**

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 At Full Size, this border measures 520 mm x 800 mm  
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**NOTES**

- REFER TO SWEETECH RETAINING WALL DESIGN PACKAGE FOR ALL RETAINING WALL DETAILS.
- REFER TO SWEETECH'S DESIGN DRAWINGS FOR DIKE AND PATHWAY CONSTRUCTION DETAILS.

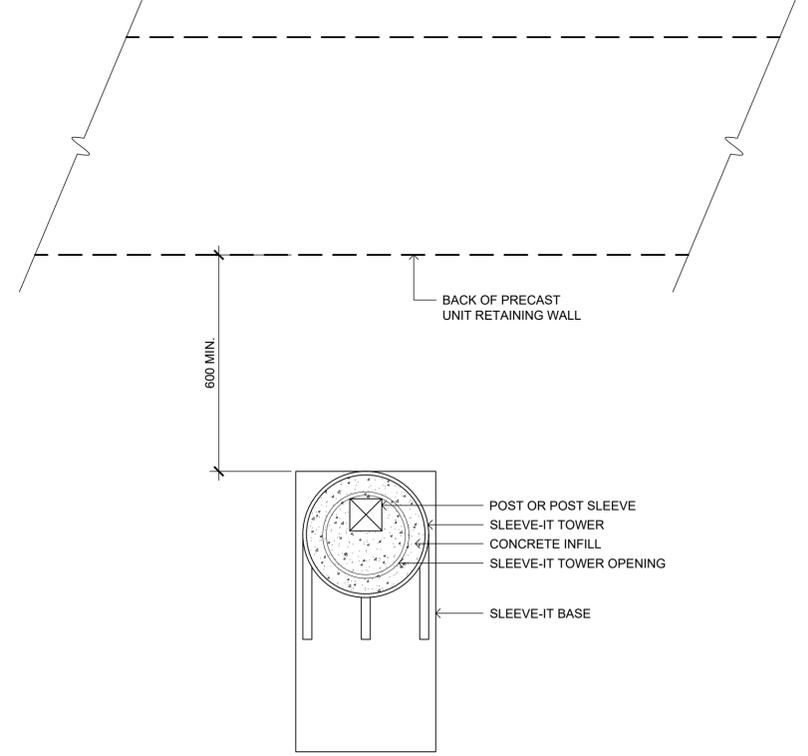
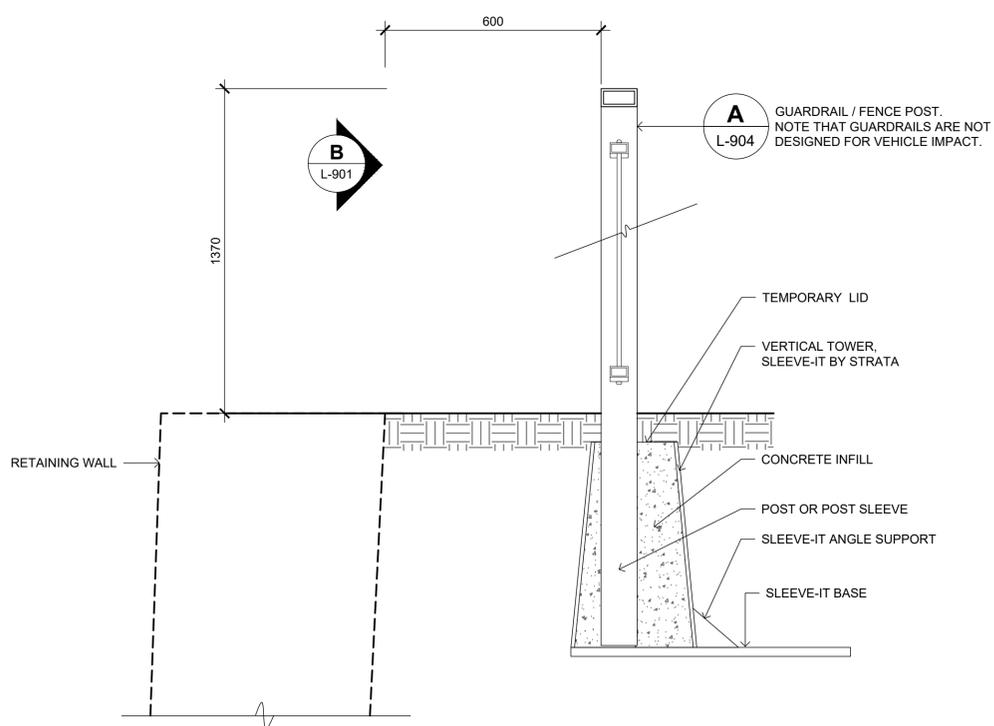


**NOTES:**

- ALL STEEL, POWDER COAT FINISH, COLOUR BLACK
- CONTRACTOR TO PROVIDE SHOP DRAWINGS FOR ALL METAL COMPONENTS.

**A PEDESTRIAN GUARDRAIL AT WALLS OVER 1.0m HT.**  
L-904 1:10 ELEVATION

**B PEDESTRIAN GUARDRAIL AT WALLS OVER 1.0m HT.**  
L-904 1:10 SECTION



**C GUARDRAIL AT RETAINING WALL OVER 1.0 m HT.**  
L-904 SCALE 1:10



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Calgary AB T2R 1R9 Canada  
tel 403 270 5600 fax 403 270 5610  
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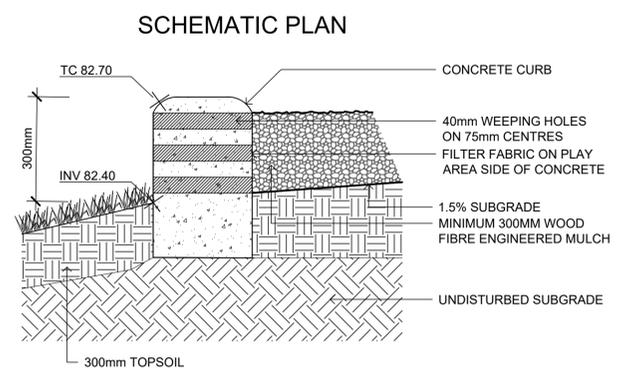
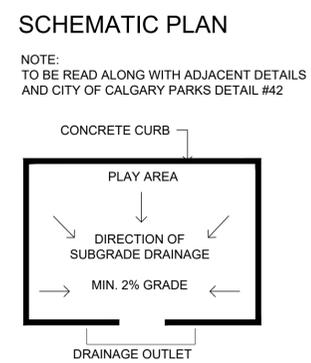
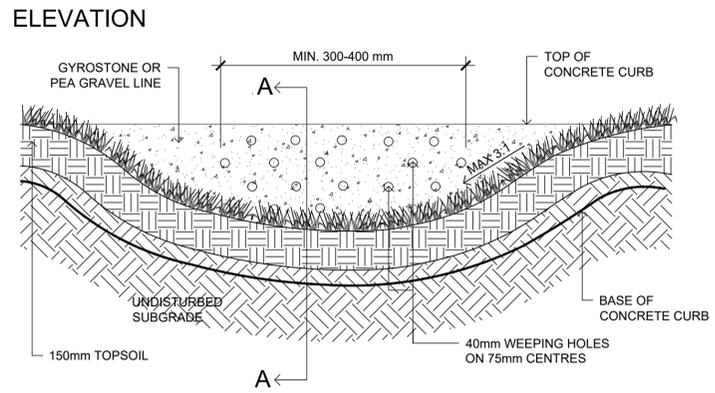
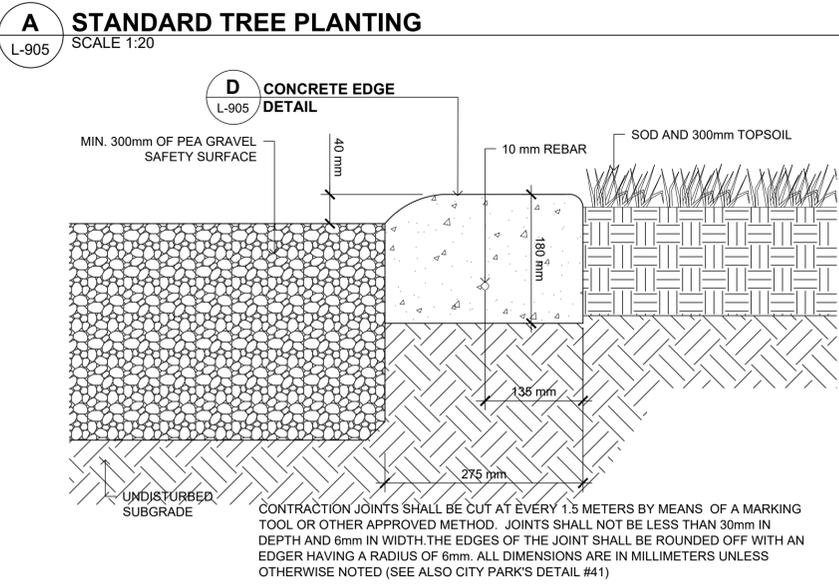
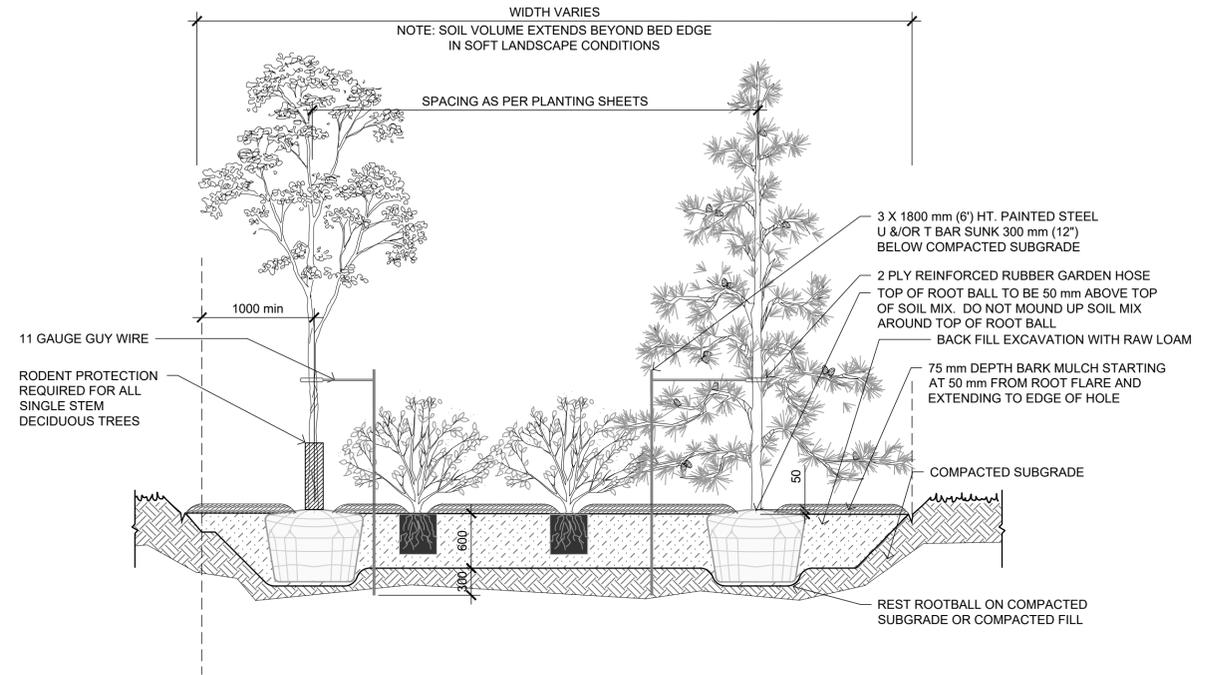
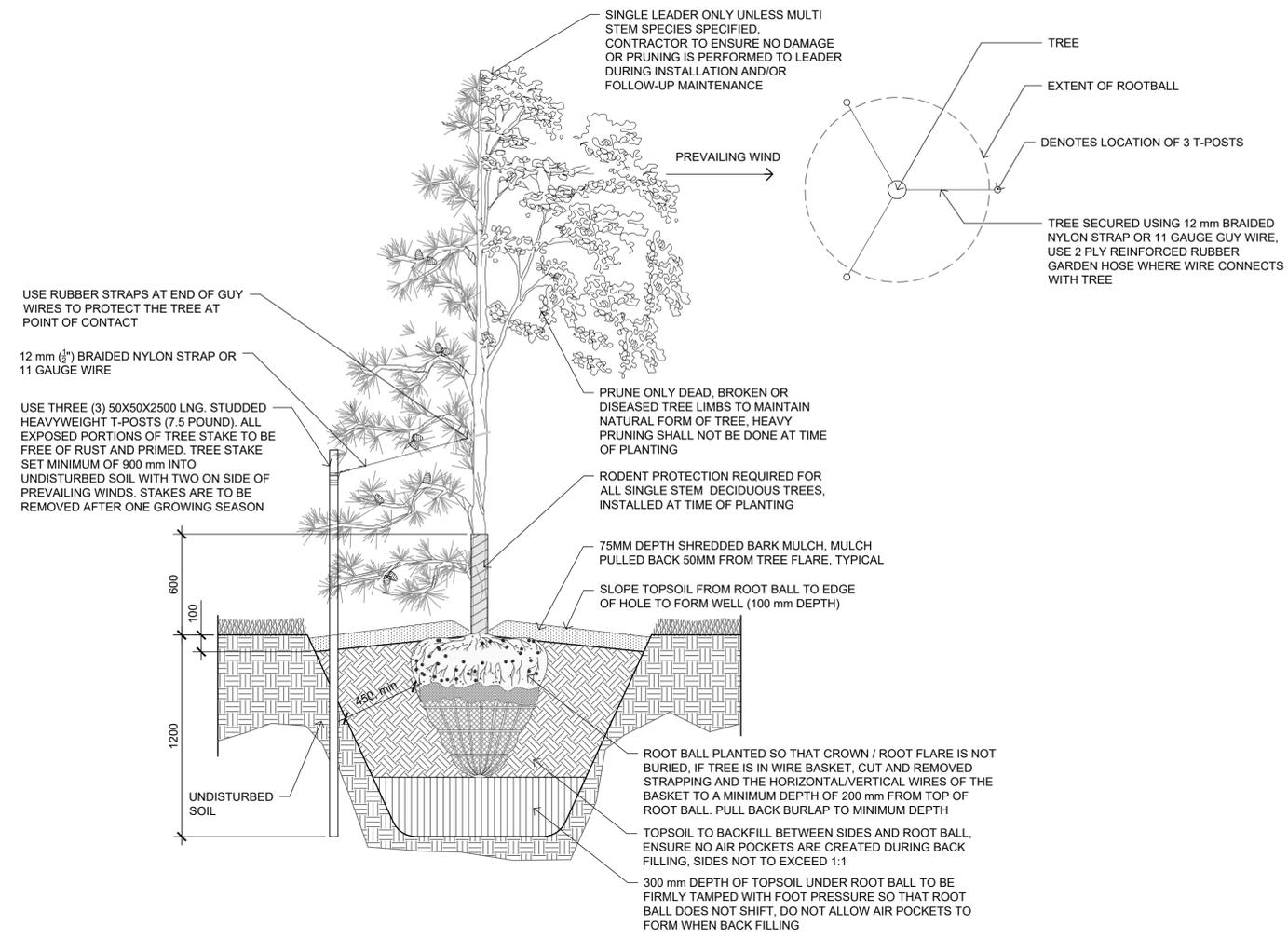
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*Ernie J Webster*

Rev	Date	Des	Dwn	Chk	Description
0	2022-04-05	EJW	MD	EJW	ISSUED FOR TENDER

Rev	Date	Des	Dwn	Chk	Description

**TOWN OF DRUMHELLER  
DOWNTOWN DIKE  
PHASE 1  
LANDSCAPE DETAILS**

Project No. 133142 Drawing No. L-904 Rev. A  
Group LANDSCAPE



**IBI GROUP**  
 3rd Floor - 227 11 Avenue SW  
 Calgary AB T2R 1R9 Canada  
 tel 403 270 5600 fax 403 270 5610  
 ibigroup.com

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 Ernie J Webster

Rev	Date	Des	Dwn	Chk	Description
0	2022-04-05	EJW	MD	EJW	ISSUED FOR TENDER

Rev	Date	Des	Dwn	Chk	Description

<b>TOWN OF DRUMHELLER DOWNTOWN DIKE</b>			
<b>PHASE 1 LANDSCAPE DETAILS</b>			
Project No.	133142	Drawing No.	L-905
Group	LANDSCAPE	Rev.	A